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MINISTRY OF PUBLIC HEALTH.

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# Annual Report on the Work of the Department of Public Health for 1935

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Government Press, Bulâq, Cairo, 1937

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## NOTICE

I.—The “ Department of Public Health ” has been converted into the “ Ministry of Public Health ” as from April 1936.

II.—In addition to this general Report, the Ministry of Public Health publishes reports on the work of each of the following Sections :—

- (1) Lunacy Division.
- (2) Ophthalmic Section.
- (3) Public Health Laboratories.
- (4) Anti-Malaria Campaign.
- (5) Giza Memorial Ophthalmic Laboratory.
- (6) Researches Institute and Endemic Diseases Hospital.
- (7) Endemic Diseases Section.
- (8) Reports and Notes of the Public Health Laboratories (Non-periodical).



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INDEX

| INTRODUCTION:—                              | PAGE. |
|---------------------------------------------|-------|
| Vital Statistics ... ..                     | 1     |
| Infectious Diseases ... ..                  | 1     |
| Pilgrimage ... ..                           | 3     |
| Sanitary Control '... ..                    | 3     |
| Maternity and Child Welfare ... ..          | 3     |
| Endemic Diseases :                          |       |
| Ankylostoma and Bilharzia ... ..            | 3     |
| Tuberculosis Branch ... ..                  | 4     |
| Leprosy Branch ... ..                       | 5     |
| Ophthalmic Diseases ... ..                  | 5     |
| Mental Diseases ... ..                      | 7     |
| Skin and Venereal Diseases ... ..           | 7     |
| General Treatment Institutions ... ..       | 7     |
| Pharmacies ... ..                           | 8     |
| Technical Researches ... ..                 | 8     |
| Soil Sanitation in Egypt ... ..             | 9     |
| Memorial Ophthalmic Laboratory, Giza ... .. | 10    |
| The Institute of Hygiene ... ..             | 10    |
| Medical Professions and Missions ... ..     | 11    |
| The Board of Health ... ..                  | 11    |
| New Units Established in 1935 ... ..        | 11    |
| Sanitary Legislation ... ..                 | 12    |
| International Hygiene and Congresses ... .. | 12    |
| Civil Status of the Population ... ..       | 13    |

CHAPTER I.

|                                                                           |    |
|---------------------------------------------------------------------------|----|
| Public Health ... ..                                                      | 20 |
| A.—Population ... ..                                                      | 20 |
| B.—Births and Deaths ... ..                                               | 20 |
| (1) Births ... ..                                                         | 20 |
| (2) Deaths ... ..                                                         | 20 |
| (3) Diseases causing Deaths and Age and Sex Distribution of Deaths ... .. | 20 |
| (4) Infantile Mortality... ..                                             | 20 |

CHAPTER II.

|                                                                 |    |
|-----------------------------------------------------------------|----|
| General Sanitation :—                                           |    |
| (1) Unhealthy, Inconvenient and Dangerous Establishments ... .. | 26 |
| (2) Water ... ..                                                | 29 |
| (3) Food-stuffs ... ..                                          | 29 |
| (4) Fencing Waste Lands... ..                                   | 32 |
| (5) Cleanliness of Streets ... ..                               | 32 |
| (6) Vidange Regulations... ..                                   | 32 |
| (7) Mosques... ..                                               | 32 |
| (8) Birkas ... ..                                               | 33 |
| (9) Cemeteries ... ..                                           | 34 |
| (10) Propaganda Office ... ..                                   | 35 |
| (11) Constructional Engineering Section ... ..                  | 37 |

### CHAPTER III.

#### Infectious Diseases Control :—

|                                                   |    |
|---------------------------------------------------|----|
| Foreword                                          | 38 |
| Typhus                                            | 38 |
| Typhoid and Paratyphoid                           | 40 |
| Small-Pox                                         | 43 |
| Cerebro-Spinal Fever                              | 43 |
| Measles                                           | 45 |
| Influenza                                         | 45 |
| Diphtheria                                        | 45 |
| Plague                                            | 45 |
| Malaria                                           | 47 |
| Protecting the Country against Imported Epidemics | 56 |
| Sanitary Control                                  | 57 |
| Modification of passenger control arrêté          | 57 |
| Permits for transport of Rags                     | 57 |
| Fever Hospitals                                   | 58 |
| Infectious Diseases Laws and Regulations          | 58 |

### CHAPTER IV.

#### Health Inspectorates Section :—

|                                                       |    |
|-------------------------------------------------------|----|
| General                                               | 60 |
| Fever Hospitals                                       | 60 |
| Dividing the Circumscription of Public Health Offices | 60 |
| Medico-Legal Service                                  | 60 |
| Prostitutes                                           | 61 |
| Frontier Districts Medical Service :—                 |    |
| Infectious Diseases                                   | 61 |
| Births and Deaths                                     | 61 |
| Hospitals and Health Offices Out-patient Clinics      | 62 |

### CHAPTER V.

#### Child Welfare :—

|                          |    |
|--------------------------|----|
| General                  | 64 |
| Dayas (Midwives) Schools | 64 |
| Sea-side Sanatoria...    | 64 |
| Foundlings Homes...      | 65 |
| Children Dispensaries    | 65 |

### CHAPTER VI.

#### Skin and Venereal Diseases :—

|                                                       |    |
|-------------------------------------------------------|----|
| Lock Hospitals and Skin and Venereal Diseases Clinics | 67 |
| Treatment                                             | 67 |

### CHAPTER VII.

#### Medical Treatment (General Hospitals Section) :—

|                                    |    |
|------------------------------------|----|
| New Units                          | 72 |
| Treatment                          | 73 |
| Operations and X-rays Examinations | 76 |
| Deaths                             | 76 |
| Expenditure                        | 76 |
| The Constructional Programme...    | 77 |

| CHAPTER VIII.                                                                           | PAGE |
|-----------------------------------------------------------------------------------------|------|
| Pharmacies :—                                                                           |      |
| Private Pharmacies ... ..                                                               | 79   |
| Pharmacies annexed to Public Health Offices ... ..                                      | 79   |
| Cairo Night Service Pharmacies ... ..                                                   | 79   |
| Medical Practitioners who prepare Drugs in their Clinics for their Private Patients ... | 79   |
| Poisonous Drug Stores ... ..                                                            | 79   |
| Simple Drug Stores ... ..                                                               | 79   |
| Registration of Egyptian Specialities ... ..                                            | 80   |
| Students of Pharmacy ... ..                                                             | 80   |
| Permits for Trading in Medicinal Plants ... ..                                          | 80   |
| Contravention to Law ... ..                                                             | 80   |
| CHAPTER IX.                                                                             |      |
| Medical Permits ... ..                                                                  | 81   |
| CHAPTER X.                                                                              |      |
| Medical Commissions :—                                                                  |      |
| The Central Medical Commission ... ..                                                   | 84   |
| Medical Examination of Private Pilots ... ..                                            | 85   |
| Provincial and Governorate Medical Commissions ... ..                                   | 85   |
| <i>Ghafirs Nizamy</i> ... ..                                                            | 85   |
| Modifications ... ..                                                                    | 86   |
| Appendix I.—Central Stores ... ..                                                       | 87   |
| „ II.—Details of Budget Grants and Actual Expenditure ... ..                            | 89   |
| „ III.—Details of Posts in the Various Sections... ..                                   | 90   |
| „ IV.—Cairo City Health Inspectorate ... ..                                             | 91   |
| A.—Vital Statistics :—                                                                  |      |
| Births ... ..                                                                           | 91   |
| Still-Births ... ..                                                                     | 91   |
| Deaths ... ..                                                                           | 91   |
| Infantile Mortality... ..                                                               | 91   |
| Causes of Infantile Deaths ... ..                                                       | 91   |
| Death Enquiries ... ..                                                                  | 91   |
| B.—Infectious Diseases :—                                                               |      |
| Typhoid Fever ... ..                                                                    | 92   |
| Diphtheria ... ..                                                                       | 92   |
| Measles ... ..                                                                          | 92   |
| Cerebro-Spinal Fever ... ..                                                             | 92   |
| Scarlet Fever ... ..                                                                    | 92   |
| Small-Pox ... ..                                                                        | 92   |
| Typhus Fever... ..                                                                      | 93   |
| Influenza ... ..                                                                        | 93   |
| Child Bearing Mortality ... ..                                                          | 93   |
| Disinfection ... ..                                                                     | 93   |
| C.—Control of Passengers and Pilgrims ... ..                                            | 96   |
| D.—Government Fever Hospital, Abbassia ... ..                                           | 96   |
| E.—Work done at the Office of the Principal Medical Officer of Police, 1935 ...         | 97   |
| F.—Sanitary Control of Public Women ... ..                                              | 97   |
| G.—General Sanitation ... ..                                                            | 97   |
| H.—Unhealthy, Inconvenient and Dangerous Establishments ... ..                          | 99   |
| Appendix V.—Summary of the Report of the Health Section, Alexandria Municipality ... .. | 101  |



MINISTRY OF PUBLIC HEALTH

ANNUAL REPORT FOR 1935

INTRODUCTION

VITAL STATICS

The estimated population of Egypt was 16,401,400 inhabitants in mid July 1935.

The birth-rate was 39·4 per thousand of population as compared with 40·3 in the preceding year. It will be observed that the birth rate is gradually falling as shown in Table No. 1.

The death-rate was 25·1 per thousand of population as compared with 26·6 in 1934.

The mortality rate for infants under one year was 160·6 per thousand births as compared with 166·4 in 1934.

Detailed statics of births, deaths and infantile mortality are given in the following table No. 1 :—

TABLE No. 1.

| Year             | Birth-rate per 1,000 of Population |                 | Death-rate per 1,000 of Population |                 | Infantile Mortality per 1,000 of Births |                 |
|------------------|------------------------------------|-----------------|------------------------------------|-----------------|-----------------------------------------|-----------------|
|                  | Egypt                              | Urban Districts | Egypt                              | Urban Districts | Egypt                                   | Urban Districts |
| 1901-1905 * ...  | —                                  | 45·5            | —                                  | 37·0            | —                                       | 282             |
| 1906-1910 * ...  | 45·9                               | 49·4            | 27·0                               | 39·1            | —                                       | 296             |
| 1911-1915 * ...  | 44·6                               | 47·8            | 27·9                               | 37·8            | —                                       | 281             |
| 1916-1920 ... .. | 40·0                               | 41·4            | 31·7                               | 40·0            | —                                       | 257             |
| 1921-1925 ... .. | 42·9                               | 49·4            | 25·3                               | 32·5            | 144                                     | 229             |
| 1926 ... ..      | 43·2                               | 50·0            | 26·2                               | 33·1            | 146                                     | 217             |
| 1927 ... ..      | 44·0                               | 43·3            | 25·2                               | 27·2            | 152                                     | 222             |
| 1928 ... ..      | 43·3                               | 42·3            | 26·2                               | 30·3            | 151                                     | 237             |
| 1929 ... ..      | 43·7                               | 44·4            | 27·3                               | 28·3            | 159                                     | 214             |
| 1930 ... ..      | 44·6                               | 45·3            | 24·4                               | 25·8            | 151                                     | 198             |
| 1931 ... ..      | 43·2                               | 45·5            | 25·9                               | 29·3            | 160                                     | 217             |
| 1932 ... ..      | 41·1                               | 45·4            | 27·6                               | 27·1            | 175                                     | 202             |
| 1933 ... ..      | 42·1                               | 46·4            | 26·5                               | 28·6            | 162·5                                   | 204·9           |
| 1934 .. ...      | 40·3                               | 44·4            | 26·6                               | 29·5            | 166·4                                   | 209·9           |
| 1935 ... ..      | 39·4                               | 42·5            | 25·1                               | 27·7            | 160·6                                   | 202·5           |

INFECTIOUS DISEASES

There is a marked decrease in the number of cases of plague, small-pox, typhus and cerebro-spinal fever than in the previous year. No cases of relapsing fever were recorded the whole year.

Typhoid and para-typhoid cases show a slight increase. It is only malaria incidence that has greatly increased.

\* These are for Egyptians only, as the Law of Births and Deaths did not become applicable to foreigners but from 1912

### *Typhus Fever.*

The number of cases of typhus fever dropped from 7,536 in 1934 to 3,151 in 1935. The number of deaths dropped as well from 1,418 in the previous year to 526 this year.

Typhus fever appeared in an epidemic form in Gharbia and Behera provinces where 2,035 cases with 271 deaths were recorded. The number of cases recorded in the remaining provinces of Lower Egypt (*i.e.* Menoufia, Dakahlia, Sharkia and Kalioubia) was 750 with 168 deaths. 232 cases were recorded in Upper Egypt provinces; most of the cases occurring in Aswân, then Giza, Beni Suef and Minia. The remaining 134 cases were recorded in the Governorates and desert Provinces.

The Department undertakes research work on rats in localities where the disease is prevalent to ascertain their infection with the form of typhus which is transmitted from them to man. Up till the present moment, the virus of this form could not be traced in rats. This research will be renewed next year by the Department. The prevalence of mild cases of typhus makes one believe that an infection with this form of disease must be existing amongst rats as is the case in many other countries.

A vaccine, brought from Mexico, is being tested by the Department for its prophylactic properties.

### *Typhoid and Para-typhoid Fever.*

The number of cases of this fever shows a slight increase this year over that of the previous year, there being 4,334 cases with 1,037 deaths recorded as against 4,284 cases with 969 deaths in the preceding year.

Most of the cases occurred during summer particularly during July.

Inoculation of all contacts with prophylactic vaccine is carried out by the Department who encourages the inhabitants, by all means of propaganda, to profit by this useful inoculation.

### *Small-Pox.*

The number of small-pox cases recorded during 1935 shows an apparent decrease, there being 165 cases only with one case imported from abroad. Of this number 155 cases occurred in Dakahlia Province which was remaining without vaccination. The vaccination of the inhabitants of this province was completed during the year.

### *Cerebro-Spinal Fever.*

The cases of cerebro-spinal fever have greatly decreased after the wave which had invaded the country in 1932. Only 240 cases were recorded during 1935—mostly in Governorates and provinces of Lower Egypt—as compared with 4,508 cases recorded in 1932.

### *Plague.*

40 cases of plague with 27 deaths were recorded, this being the lowest figure recorded during the past five years. Most of these cases occurred in Upper Egypt provinces, Asyût province in particular.

Last year the Department had waged a vigorous campaign for the destruction of rats in localities where the disease frequently appeared. The results of the examination of these rats and their species were mentioned in last year's report. It was discovered that the fleas most prevalent amongst the rats were of the *Xenopsylla Cheopis* variety which form 92 per cent and which was solely found on the rats trapped from Asyût province. *X. Chephrensis* was the second variety met with in rats trapped in Giza province. It was noticed that most of the fleas examined of both varieties were females.

### *Diphtheria.*

The number of cases of Diphtheria recorded during this year was 2,181 with 1,052 deaths, as compared with 2,029 cases with 892 deaths during the previous year.

The Department continues to encourage the inhabitants by all possible means, and parents are urged to have their children vaccinated with anatoxin. It is hoped that the various methods of propaganda adopted by the Department and the ease with which

anatoxin is now supplied, will help increase the number of inhabitants seeking vaccination of their children.

During the year under review, 25,313 children were given one injection; 20,294 children were given two injections and 35,458 children were given three injections.

#### *Measles.*

There were 6,664 cases with 2,025 deaths recorded during the year as against 8,002 cases with 2,781 deaths during the preceding year.

#### *Influenza.*

7,317 cases with 400 deaths were notified to the Department during the year as against 7,032 cases with 360 deaths in the previous year.

Most of the cases were of the mild form and no complications worthy of mention occurred, nor did the disease appear in an epidemic form in any part of the country.

### PILGRIMAGE.

The number of Egyptian pilgrims who proceeded to the Hedjaz this year was 5,046. Of this number, 13 died in the Hedjaz, two at Tor lazaret and three after their return. All died of natural causes. All pilgrims were observed after their return for the regulation period.

A dispensary was sent to the Hedjaz during pilgrimage. 5,038 patients were treated by this dispensary. Of this number, 1,095 were Egyptians, 2,578 Hedjazians and the rest were of other nationalities.

### SANITARY CONTROL.

The number of passengers who arrived in Egypt *via* the ports was 33,667 of which 33,646 or 99·93 per cent were observed. 32,083 passengers arrived *via* Kantara of whom 32,077 or 99·98 per cent were observed.

### MATERNITY AND CHILD WELFARE

The travelling units created by the Department for combating puerperal fever and for the inspection of *dayas* visited several villages. The work performed by these units consists of inspection of *dayas*, guidance of pregnant to principles of hygiene, instruction of *dayas* during deliveries, care of infants and administration of medicines when necessary.

As a result of the work of these units, the number of puerperal fever cases was greatly reduced in the localities visited.

The total number of confinements undertaken by the Child Welfare Centres throughout Egypt was 44,327 in 1935 as against 40,293 in last year. The number of old pregnant attending at the various centres was 236,412 as against 242,495 in the previous year. The number of new pregnant was 51,604 as against 47,129 in 1934. 1,075,104 children attended these centres as against 898,577 in the preceding year. The number of blood specimens examined for Wassermann reaction was 55,967 of which 5,471 specimens were found positive.

269 *dayas* were authorised to practise their profession, 75 permits were withdrawn from *dayas* who failed to perform their duties satisfactorily and 68 *dayas* died.

The Medical officers, midwives and female health visitors lecture mothers on different subjects of hygiene with which they should be acquainted, whereas the Child Welfare Centres contribute food, ready made clothes and cloth to necessitous mothers.

### ENDEMIC DISEASES

#### *Ankylostoma and Bilharzia.*

The total number of patients seeking treatment at the Ankylostoma and Bilharzia units during the year was 759,735 as compared with 665,799 in 1934 with an increase of 14 per cent in spite of:—

(1) The suspension of ascaris treatment for some time during the year until sufficient quantities of chenopodium and castor oils have been imported for use as a substitute for carbon tetrachloride in the treatment of ascaris,

(2) Occupation of the *fellaheen* in eliminating the pest of the cotton crop.

(3) Treatment of many cases in the district and village hospitals in addition to their ordinary work.

The forbiddance of private practice by the medical officers had been a prominent factor in increasing the number of patients seeking treatment. The visiting of many villages by the travelling units is also responsible, to a great extent, for this increase.

An experiment was carried out for the preservation of tents from decay caused by Fungus growths. Tents were sprayed with a solution of "Shirlan N.A." and "Permal W." by means of a disinfection pump. The results were satisfactory and it is hoped that much economy in the cost of tents shall be effected.

#### *Tuberculosis Branch.*

##### New Units :

On June 1, 1935, a third chest diseases dispensary was inaugurated at Khalifa quarter, Cairo. A chest diseases dispensary will be opened early in 1936 at Asyût in addition to another, proposed to be opened the same year at Damanhour.

#### *Fouad Sanatorium, Helwan.*

A special arrangement was made for the admission of poor patients to the third non-paying class at the Sanatorium, through chest diseases dispensaries, provided they are suitable for sanatorial treatment.

Other hospitals and private practitioners shall have to send their patients to the nearest dispensary which will apply this arrangement to each case.

Every patient leaving the Sanatorium shall remain under the surveillance of the competent dispensary.

On January 1, 1935, there were at the Sanatorium 344 cases. 1,165 cases were admitted during the year (272 admitted through dispensaries) and 1,163 were discharged. The number remaining on January 1, 1936, was 346. 450 cases improved, 505 remained stationery, 96 became worse and 112 died.

Local arrangements were made to increase 33 beds, thus raising the number of beds at the Sanatorium to 433 distributed as follows : 36 for the first and second class, 80 for the third class paying and 317 for the third class non-paying patients.

#### *Project of a Tuberculosis Hospital at Tanta.*

The Department is studying a project of a new tuberculosis hospital at Tanta to meet the needs of patients in Lower Egypt. Preliminary steps have been taken, the site selected and plans of the building have been laid down.

#### *Number of Patients.*

The number of patients seeking treatment at the chest diseases units was 42,282 with an increase of 8,821 or 26 per cent over that of the previous year.

Of this number, 2,388 or 5.6 per cent were found positive for tuberculosis.

#### *Domiciliary Visits.*

Patients appreciated domiciliary visits paid by female health visitors who advise them on the principles of hygiene they should follow to avoid the spread of tuberculosis and who look after their contacts.

4,100 house visits were paid by health visitors and 747 by the medical officers.

The new arrangement of forwarding patients suitable for sanatorial treatment to Fouad Sanatorium, Helwan, produced satisfactory results. Unfortunately some patients could not afford staying at the Sanatorium, away from their families, for a considerable time. Some left before completion of their treatment, notwithstanding the advice offered to them to profit by their stay at the Sanatorium.

### *Dispensary Treatment.*

Every attention is paid to contacts by the dispensary. They are all examined and advised to report at once should any symptom develop. By this means it is possible to diagnose the disease from the onset. Special interest is taken by the dispensary in persons who are found positive for Manteaux test. They are X-rayed and given the appropriate treatment to ward the danger of infection off contacts and others.

Early cases are referred to Helwan Sanatorium and advanced cases are placed under the surveillance of the competent dispensary.

### *Leprosy Branch.*

During the year much progress was accomplished at Abu Zaabal Leprosy Colony. The number of patients increased from 159 to 237. Some had to be accommodated in tents. The necessary credit for the equipment of 100 beds had been applied for in next year's budget.

Trees have been planted and portions of land have been reserved within the lepers quarters for cultivation. Thus it was possible to dispense with some of the vegetables supplied by contractors. The Colony has been provided with a "Decoville" line with trucks for removing sand for levelling the land and trolleys for the transport of officials from their residence to the Colony.

The number of beds at the Cairo Leprosy Hospital was increased from 50 to 75 with a view to accommodating the maximum number of female lepers. The number of female lepers was 57 and increased to 84.

Two leprosy sub-clinics were created in connection with Tanta Leprosy Clinic, one at Zifta and the other at Shebin El Kom. There are now four sub-clinics attached to Tanta Clinic.

This scheme of sub-clinics will be gradually introduced to the other clinics to facilitate the attendance of patients. It is to be noticed that the sub-clinics do not entail any extra expense save the travelling expenses of the ambulance.

### *Number of Patients.*

The number of patients seeking treatment at the leprosy units during the year was 1,083 of which 584 or 53.9 per cent were found suffering from leprosy.

The total number of patients applying for treatment at all leprosy units, since the inauguration of the leprosy branch in 1929, was 8,163 of which 3,661 were positive lepers. 353 lepers were repeatedly registered at various units, thus leaving 3,308 lepers proper on the registers.

## OPHTHALMIC DISEASES

### *New Units.*

During this year, five ophthalmic branches were opened in the General Hospitals at "Shebin El Kanater, Belbeis, Fashn, Balyana and Qous." Thus the number of ophthalmic units reached 69 (of which 55 are permanent and 14 travelling). This number shows an increase of five units over that of 1934, and 46 units over that of 1923.

### *Projects under Consideration.*

#### *1. Ophthalmic Hospital at Kafr el Sheikh.*

The construction of this hospital has been put into adjudication and as soon as the Budget of 1936-1937 is approved, the state Buildings Department will proceed with the building. Treatment will be conducted as soon as the building and equipment are completed

2. *Enlargement of Ophthalmic Hospitals at Benha, Beni Suef and Fayoum.*

These hospitals have become inadequate to accommodate the large number of attending patients; it has therefore been decided to have them enlarged. The local authorities have assisted the Government in the cost of the work and the State Buildings Department has proceeded with the building operations.

3. *Enlargement of the Ophthalmic Branch at Demerdash Hospital.*

This branch consisted of one room amongst the other hospital departments and being inadequate to accommodate the large number of attending patients, it was decided to construct a suitable new building for this branch. The necessary credit has been granted and the State Buildings Department has actually started the work.

*Clinical Work.*

The following table No. 2 shows the clinical work done in the year 1935 as compared with that of 1934 :—

TALBE No. 2.

|                               | 1934      | 1935      | Increase in 1935 |
|-------------------------------|-----------|-----------|------------------|
|                               |           |           | per cent         |
| New patients ... ..           | 928,215   | 1,034,986 | 11               |
| In-patients ... ..            | 27,860    | 32,623    | 17               |
| Operations ... ..             | 305,206   | 334,866   | 10               |
| Out-patient attendance ... .. | 7,251,382 | 7,525,063 | 4                |

*Blindness.*

The number of patients who were found blind in one or both eyes, excluding cataract cases causing blindness, was 59,481 or 5·7 per cent of all patients examined at the Ophthalmic Hospitals. By adding the cataract cases causing blindness, the percentage becomes 6·0.

It was found that acute ophthalmias form 82 per cent of all causes. The gonococcus is still the predominant factor of infection with acute ophthalmias—its percentage to total of microbes being 40.

*Age of Patients.*

Out of 1,034,986 new patients treated, 62,831 or 6·07 per cent were under the age of one year—329,171 or 31·51 per cent from one to 15 years of age—265,100 or 25·62 per cent from 15 to 30 years of age; and 591,271 or 57·13 per cent from one to 30 years of age. This fact shows that the masses recognise the importance of seeking ophthalmic treatment for infants, children and youths.

*School Clinics*

Ophthalmic examination, inspection and treatment of pupils are, at present, carried out in 34 Primary Government Schools.

10,412 pupils were examined, of whom 99 per cent were found suffering from trachoma in its various stages. About 43 per cent of these were in the serious stages of the disease (trachoma I and II). As a result of ophthalmic treatment the latter percentage fell to 19.

In this connection it is to be noted that the most correct percentage of the prevalence of trachoma among pupils can be obtained in Government schools.

This is due to the fact that the examination and treatment are carried out regularly and permanently on pupils who are under the constant supervision of treating doctors.

Pupils of 42 other primary schools and Kuttabs belonging to the Provincial Councils in Markazes (Districts) where permanent or travelling ophthalmic hospitals exist received ophthalmic treatment at these hospitals.

### *Accommodation.*

The number of beds was 1,494 with an increase of 28 beds over last year.

### *Post-Graduate Course of Ophthalmology.*

During April 1935, 20 Medical Officers underwent the post-graduate course in ophthalmology, of these 6 were inspected in the preliminary clinical course and 2 of them passed ; 5 were inspected in the final clinical course and all passed.

During October there were 20, of whom 12 were inspected in the preliminary course and 8 of them passed ; 2 were inspected in the final clinical course and both failed. Those who failed for the first time were given another chance but those who failed for a second time were transferred to other branches of the Department.

### *Providing the Ophthalmic Hospitals with up-to-date Appliances.*

The Department is taking special interest in providing the Ophthalmic Hospitals with up-to-date appliances.

## MENTAL DISEASES

Four new sections to accommodate 230 patients were completed at the mental hospitals and taken over during the Summer ; the total accommodation thereby increasing from 2,635 to 2,865 beds.

Admissions to the two hospitals during the year 1935 have reached the unprecedented and unequalled figure of 2,003. Female admissions numbered 717 as against 1,286 males.

Readmissions of former patients numbered 517 or about 26 per cent of the total admissions.

*Discharges* : 125 patients were discharged “ recovered ” while 1,221 were discharged “ relieved.” and “ not improved ”

503 deaths occurred during the year, and the “ death-rate to total treated ” coincides with that of 1934.

*Out-patients Clinic.*—The out-patients clinic is still well-attended and the work is gradually increasing. There can be no doubt that it has so far saved many from the necessity of certification and has, indeed, saved the mental hospitals from adding to their overcrowding. It is worthy of mention that the early treatment of patients is of the utmost value.

*Dentistry.*—1,815 cases were treated during the year.

*Ophthalmology.*—An ophthalmic surgeon from the Department of Public Health now visits the mental hospitals regularly once every week. 1,500 patients were examined in addition to the operations performed.

It is hoped that on completion of the newly proposed ophthalmic clinic and furnishing it with all the necessary equipment and instruments, many other ophthalmic operations will be done at the mental hospitals under better conditions.

## SKIN AND VENEREAL DISEASES

The number of skin and venereal diseases units still remains the same as last year. The number of new patients was 82,381 and the number of visits was 625,442 as compared with 76,324 new patients and 606,296 visits in the preceding year.

## GENERAL TREATMENT INSTITUTIONS

The Department has not yet taken over any of the four Markaz hospitals and the 10 village hospitals, the construction of which was begun in the previous year. The construction of the new Tanta hospital is still proceeding. Two new X-Ray departments are being constructed at Suez and Asyût hospitals. The equipment of the dental clinic at Luxor hospital is completed and it is expected to be inaugurated early next year.

There are now 19 general hospitals in chief towns of provinces, 45 *Markaz* hospitals in *Bandars* and large towns and 50 village hospitals besides 3 out-patient clinics for general diseases.

The total number of beds in these hospitals was 5,429.

117,729 patients were treated in the in-patient departments and 2,414,963 in the out-patient departments who paid 4,944,428 visits to these hospitals, as against 107,005 in-patients, 2,316,480 out-patients and 4,711,137 visits in the previous year. 935,460 patients were treated at the village hospitals with a total of 1,952,803 visits as against 817,022 patients and 1,448,314 visits in 1934.

45,791 operations were performed in the in-patient departments and 59,132 operations in the out-patient departments besides 32,509 X Rays examinations as against 34,132, 49,795 and 25,299 respectively in 1934.

The number of deaths recorded amongst the in-patients was 5,605 or 4·89 per cent of the patients as against 5·09 per cent death-rate in the previous year.

The average stay in hospital of the in-patient was 15·3 days as against 14 days in 1934 ; the average cost of maintenance being 190 milliemes per diem as against 210 milliemes in 1934.

#### PHARMACIES

The Department granted 19 permits for new pharmacies and closed down 22 ; the number of pharmacies remaining in 1935 being 437.

The number of pharmacies annexed to Public Health Offices remains the same as last year namely 16 in number.

The number of night service pharmacies is now 8 with an increase of 2 over that of 1934.

The number of private practitioners who prepare drugs for their patients in their clinics is now 238 as against 245 in 1934.

The following permits were granted by the Department during the year :—

76 permits for trading in poisonous and stupefacient drugs.

21 permits for simple drug stores.

20 permits for preparation and sale of specialities making a total of 430 registered specialities.

3 permits for dealing in medicinal plants.

The following are the quantities of stupefacients consumed in medicinal purposes :—

57 kilogrammes of opium and its preparations.

3 kilogrammes of morphine and its salts.

4 kilogrammes of cocaine and its salts.

3 kilogrammes of cannabis indica.

#### TECHNICAL RESEARCHES

##### 1. *Bacteriological Section.*

The total number of specimens examined bacteriologically in the Central, Provincial and Branch Laboratories, during the year 1935, was 348,816.

##### 2. *Pathological Section.*

4,224 specimens were examined during the year under review in this Section and the Branch Pathological Laboratory, Alexandria.

##### 3. *Chemical Section.*

The total number of samples examined chemically in the Central Laboratories and Asyût Chemical Laboratory during the year 1935 was 19,980.

#### 4. *Water Section.*

##### (a) *Bacteriological Section.*

The total number of samples of water, aerated water, ice and syrup examined by this section during the year 1935 was 11,047.

##### (b) *Chemical Service.*

During the year some 2,000 samples of water have been subjected to chemical analysis. While a large number of specimens of aluminium sulphate, mineral waters, and syrup have also been examined.

#### 5. *Vaccine Section.*

The following vaccines have been prepared during 1935 :

- |                                                       |                                        |
|-------------------------------------------------------|----------------------------------------|
| (1) T.A.B. ... ..                                     | 278,700 ccs.                           |
| (2) Anti-cholera vaccine ... ..                       | 66,350 ccs.                            |
| (3) Diphtheria Prophylactic (Formol<br>Toxoid) ... .. | 24,969 boxes, each box for one person. |

#### 6. *Vaccine Lymph Institute.*

Some 6,573,985 doses of calf lymph were issued during the year under review.

#### 7. *Antirabic Institute and Hospital.*

During the year 1935, 4,978 persons attended the Institute. Of these 3,234 were admitted as in-patients.

### SOIL SANITATION IN EGYPT

In Egypt, where the Rockefeller Foundation is assisting the Government in a campaign against soil pollution, plans have been formulated for resurveys to evaluate the control measures in operation in villages north of Cairo. The first group of resurveys took place in the fall of 1934. Record was made of all types of helminth eggs found in the course of laboratory examination of stool specimens.

The sanitation of selected Egyptian villages by the installation of bored-hole latrines continues. During 1934 the number of latrines installed in ten villages of six provinces was 1,652. These villages have a total population of about 12,000. Increased interest in home sanitation is evinced by the inhabitants of rural sections near the villages used as demonstration centres.

In the villages selected for sanitation, educational work is carried out by the sanitary inspector in charge of latrine construction and by the medical officer and other officials, who give talks in the mosques or dwelling houses, or wherever a group of people can be collected. In 1934, 556 lectures on public health were delivered to audiences aggregating 16,500 persons.

As a corollary of the hookworm work in Egypt an experiment in composting refuse from the Suez municipality was begun in April 1934. Results have been satisfactory, and there are indications that the entire refuse output of the town can be converted into a marketable and inoffensive fertilizer, at a cost not exceeding that of the existing practice of promiscuous dumping.

During 1935 there was also completed a helminthological survey of Egypt, in which at least 40,000 representative individuals were investigated through a microscopic examination of over 150,000 slides containing stool specimens. Originally this study was planned as an attempt solely to evaluate the effect of sanitation with bored-hole latrines by studying worm parasite infestation, but as the survey proceeded it supplied in addition a knowledge of the distribution of various parasites over the country as a whole. It revealed the differences of infestation level which might occur even within small areas. It indicated the natural variability of infestation level from year to year and with the different seasons of the year. From this survey, which has extended over a period of six years, a good idea can be obtained of the helminthological or worm parasite infestation in the country.

For the past five years the Foundation has also been co-operating with the Government in Egypt on the problem of schistosomiasis. This is a disease caused by parasitic worms of the genus *Schistosoma*, which enter the skin in larval form from infested water and invade various organs, causing severe inflammation or irritation. The intermediate host for *Schistosoma* is a snail. Before the problem of schistosomiasis can be solved, it is obvious that the snail problem must be understood. Little has been known about snails as carriers of disease, but the work has now reached the stage where it seems that canal clearance offers considerable hope for ridding irrigation canals of snails. Control of the snail and thereby of schistosomiasis lies uppermost in the minds of many workers in the field of medical research in Egypt. It is thought that in a vigorously conducted attack on the intermediate host lies the best possibility of success.

#### MEMORIAL OPHTHALMIC LABORATORY, GIZA

The scientific work accomplished in the Laboratory during 1935 comprises :—

1. *Post-graduate education*.—The bi-annual post-graduate courses on medical and surgical ophthalmology were provided as usual for the junior medical officers of the ophthalmic section, and examinations were conducted at the end of each course. The results, on the whole, were satisfactory.

2. *Pathological Section*.—The number of pathological specimens submitted to the Laboratory for report was slightly below that for 1934, but there was a very considerable increase in the bacteriological work. Many interesting pathological specimens were met with.

3. *Clinical Section*.—During the year, a large number of patients were referred to the Laboratory for examination and investigation. Some of these were of quite unusual interest.

4. *Research Section*.—The research work of the Laboratory includes bacteriological and pathological researches.

At the beginning of the year, a bacteriological study of the ophthalmias of Egypt was begun and an attempt to ascertain the factors which determine the epidemics of these diseases is being made. Only preliminary notes on this work could be included in the report of the Laboratory for this year.

With regard to clinical research, the experiments which have been in progress at Bahtim experimental station for some years have been continued through the year. Further work has also been done on the treatment of trachoma, the acute ophthalmias and other diseases.

Full reports on all the above work will be found in the Tenth Annual Report of the Laboratory.

#### THE INSTITUTE OF HYGIENE

Twenty sanitary overseers have graduated this year from the Institute of Hygiene, in its two sessions. Some of the overseers are selected by the Department to perform the work of food inspectors with a view to effecting a proper control of food-stuffs. 6 such overseers have been selected for the purpose.

Pacing with the constructional policy of the Department and the increase in the number of Health Offices with a view to providing every 30,000 inhabitants with one, the Department is considering the enlargement of the Institute of Hygiene in order to discharge the adequate number of overseers each year.

## MEDICAL PROFESSIONS AND MISSIONS

During the year, the Department authorised the following classes to practise their professions in Egypt :—

|                              | 1935 | 1934 |
|------------------------------|------|------|
| Medical Practitioners ... .. | 132  | 140  |
| Veterinary Surgeons ... ..   | 31   | 28   |
| Dental Surgeons ... ..       | 31   | 20   |
| Pharmacists ... ..           | 39   | 25   |
| Assistant Pharmacists ... .. | —    | —    |
| Midwives ... ..              | 14   | 22   |
| <i>Dayas :</i>               |      |      |
| Green permits ... ..         | 269  | 300  |
| White permits ... ..         | 2    | 4    |
| Barbers * ... ..             | 1    | —    |

\* Permits are no longer issued to barbers except in the Frontier Districts. It is the policy of the Department to dispense with this category of employees.

Of 12 medical practitioners, 13 pharmacists and 18 dental surgeons holding foreign diplomas and sitting for the state examination, 5, 5 and 8 respectively succeeded.

During 1935, the following doctors were sent on missions abroad :—

Two doctors to study Chest diseases.

One doctor to study Helminthology.

One doctor to study Leprosy.

Three doctors to study Bacteriology.

One doctor to study Bacteriology and Pathology of the eye.

One doctor to study Splenomegaly.

## THE BOARD OF HEALTH

No meetings of the Board of Health were held during 1935.

TABLE NO. 3 SHOWING UNITS ESTABLISHED IN 1935

| Units                                                                        | Number | Cost of Construction<br>L.E. |
|------------------------------------------------------------------------------|--------|------------------------------|
| Fever Hospital ... ..                                                        | 1      | 1,060                        |
| Sanitary Shelter ... ..                                                      | 1      | 842                          |
| Dental Clinic ... ..                                                         | 1      | 874                          |
| Ophthalmic Branches in Markaz Hospitals ... ..                               | 3      | 4,909                        |
| Permanent Ophthalmic Hospital ... ..                                         | 1      | 2,862                        |
| Leprosy Outpatient Clinic (converted into a Chest diseases Dispensary)... .. | 1      | 1,790                        |
| Child Welfare Centre ... ..                                                  | 1      | 1,960                        |
|                                                                              | 9      | 14,297                       |

### SANITARY LEGISLATION

During the year, several important laws and regulations, intended for the amelioration of the sanitary condition of the country, have been promulgated. The following are the most important:—

(1) Decree promulgating the arrangement respecting statistics of causes of deaths and the Protocol of signature, signed in London on June 19, 1934.  
(*Published in the Official Journal No. 13 dated February 11, 1935*).

(2) Arrêté adding "Psittacosis" to the Infectious Diseases Schedule annexed to law No. 15 of 1912.  
(*Published in the Official Journal No. 26 dated March 25, 1935*).

(3) Decree promulgating the International Sanitary Convention for aerial Navigation of April 12, 1933.  
(*Published in the Official Journal No. 47 dated May 27, 1935*).

(4) Decree-law No. 107 approving the International Sanitary Convention signed in Paris on June 21, 1926.  
(*Published in the Official Journal No. 84 dated September 23, 1935*).

(5) Decree-law No. 147 of 1935 limiting the working hours in certain industries.  
(*Published in the Official Journal No. 110 dated December 9, 1935*).

### INTERNATIONAL HYGIENE AND CONGRESSES

The Department not only follows with interest all the sanitary researches carried out in foreign countries but also cooperates in some of these researches through the Office International d'Hygiène Publique, Paris, with a view to providing the country with all that may be found necessary. The Department is a member of that Office and is represented by the Under Secretary of State for Health.

A note on the final disinfection in infectious diseases cases with the opinion of the Department was sent to the Office International d'Hygiène Publique during its April-May session. Two other notes were sent to the October session. The one dealt with epidemiological information to be forwarded to the Regional Bureau of Alexandria, belonging to the Sanitary and Maritime Quarantine Board, so that quarantine measures in connection with aircraft may be applied intelligently.

The other note was a questionnaire on Diphtheria Anti-vaccination.

### INTERNATIONAL CONGRESSES

The Department was invited to the following congresses:—

1. The IIInd International Congress of Stomatology held in Poland during April 14-19, 1935.
2. The International Union against Cancer held in Paris on May 5, 1935.
3. IVth International Congress of Hospitals held in Rome during May 19-26, 1935.
4. International Housing Association held in Prague during June 23-26, 1935.
5. XIVe Session des Journées Médicales de Bruxelles from June 23-27, 1935.
6. VIIIth International Congress of Medicine and Military Pharmacy.
7. 46th Health Congress of the Royal Sanitary Institute held at Bournemouth during July 15-20, 1935.

8. XXth International Congress of Legal Medicine and Social Medicine held in Bruxelles during July 17–20, 1935.

9. XIth Session of the International Association for the protection of infancy, held in Bruxelles during July 18–21, 1935.

10. VIIe Congrès International des Accidents du Travail et des Maladies Professionnelles held in Bruxelles during July 22–26, 1935.

11. VIIth Congress of the International Association for Thalassotherapy held in Saint Sebastian during July 27–30, 1935.

12. Vth International Congress of Medicinal and Aromatic Plants held in Bruxelles during July 30–August 2, 1935.

13. XIIth International Congress of Pharmacy held in Bruxelles during July 30 to August 5, 1935.

14. Ist International Congress of Gastroenterology held during August 8–10, 1935.

15. VIth International Congress of Entomology held in Madrid during September 6–12, 1935.

16. International Congress for the Scientific Investigation of Population Problem held in Berlin during September 10–15, 1935.

17. IXth International Congress of Dermatology and Syphilology held in Budapest during September 13–21, 1935.

18. Xth International Congress for History of Medicine held in Madrid during September 23–29, 1935.

19. Inter-Governmental Conference for the Biological Standardisation held in Geneva on October 1, 1935.

20. Association of Military Surgeons of the United States of America held in New York during October 3–5, 1935.

21. Ist Interbalkanic Conference for the Protection of the Infant held in Athens during October 20–26, 1935.

22. The Panafrikan Sanitary Conference held in Cape Town on November 20, 1935.

23. The Tenth International Surgical Congress held in Cairo on December 31, 1935.

The Department had co-operated in the session of the International Association for the Protection of Infancy and the International Congress for Accidents of Labour and Professional diseases. Dr. Mohamed Zaki Shafie, Director of the Technical Bureau, was delegated to represent the Department in both Congresses. As regards the rest of the Congresses, the Department was not represented in some being contented with representatives of other Departments and Ministries ; and apologised for not co-operating in the others because their discussions had no relation with its work.

The Department, however, receives the discussions of the various conferences and follows the subjects dealt with therein with a view to introducing such as would improve the state of public health in Egypt.

#### CIVIL STATUS OF THE POPULATION IN CHIEF TOWNS OF PROVINCES AND GOVERNORATES

Tables Nos. 4, 5 and 6 give data concerning marriages and divorces in Governorates and Chief Towns of Provinces for the period commencing July 1, 1934, and ending June 30, 1935.

TABLE NO. 4 SHOWING AGES, CONDITIONS AND RELIGIONS OF

| Religion and Locality |                    | Estimated<br>Population<br>Mid-year<br>1935 | Civil Condition before Marriage |          |         |                    |                    |                      |          |          | Total<br>Number<br>of<br>Married<br>Persons |        |         |
|-----------------------|--------------------|---------------------------------------------|---------------------------------|----------|---------|--------------------|--------------------|----------------------|----------|----------|---------------------------------------------|--------|---------|
|                       |                    |                                             | Bridegroom                      |          |         |                    |                    |                      | Bride    |          |                                             |        |         |
|                       |                    |                                             | Bachelor                        | Divorced | Widower | Married and having |                    |                      | Spinster | Divorced |                                             | Widow  |         |
|                       |                    |                                             |                                 |          |         | Another<br>Wife    | Two<br>other wives | Three<br>other wives |          |          |                                             |        |         |
| Moslems               | GOVERNORATES :     |                                             |                                 |          |         |                    |                    |                      |          |          |                                             |        |         |
|                       | Cairo ... ..       | 1,049,000                                   | 8,414                           | 4,798    | 788     | 1,907              | 69                 | 5                    | 7,850    | 7,265    | 865                                         | 31,962 |         |
|                       | Alexandria ...     | 514,900                                     | 4,142                           | 1,880    | 359     | 579                | 16                 | 2                    | 3,782    | 2,858    | 338                                         | 13,956 |         |
|                       | Canal ... ..       | 149,700                                     | 1,058                           | 480      | 128     | 222                | 9                  | 1                    | 1,056    | 719      | 123                                         | 3,796  |         |
|                       | Damietta ... ..    | 38,700                                      | 288                             | 86       | 36      | 25                 | —                  | —                    | 302      | 119      | 14                                          | 870    |         |
|                       | Suez ... ..        | 37,700                                      | 270                             | 185      | 47      | 51                 | 1                  | —                    | 275      | 232      | 47                                          | 1,108  |         |
|                       | Frontier Districts | 109,000                                     | 501                             | 211      | 106     | 117                | 8                  | —                    | 575      | 287      | 81                                          | 1,886  |         |
|                       | LOWER EGYPT :      |                                             |                                 |          |         |                    |                    |                      |          |          |                                             |        |         |
|                       | Benha ... ..       | 1,095,200                                   | 9,459                           | 1,109    | 1,316   | 1,789              | 230                | 23                   | 10,354   | 2,079    | 1,493                                       | 27,852 |         |
|                       | Dakahlia ... ..    | 1,225,400                                   | 10,847                          | 2,189    | 1,425   | 2,109              | 217                | 27                   | 11,618   | 3,585    | 1,611                                       | 33,628 |         |
|                       | Gharbia ... ..     | 1,970,800                                   | 18,477                          | 3,619    | 2,523   | 3,734              | 340                | 33                   | 19,674   | 6,084    | 2,998                                       | 57,512 |         |
|                       | Menoufia ... ..    | 1,208,100                                   | 10,530                          | 2,361    | 1,691   | 1,779              | 119                | 16                   | 11,096   | 3,794    | 1,606                                       | 32,992 |         |
|                       | Kaliubia ... ..    | 696,600                                     | 4,995                           | 1,349    | 751     | 1,025              | 63                 | 4                    | 5,211    | 2,220    | 756                                         | 16,374 |         |
|                       | Sharkia ... ..     | 1,111,000                                   | 10,650                          | 2,631    | 1,369   | 2,384              | 219                | 11                   | 11,201   | 4,388    | 1,675                                       | 34,528 |         |
|                       | UPPER EGYPT :      |                                             |                                 |          |         |                    |                    |                      |          |          |                                             |        |         |
|                       | Aswân ... ..       | 287,300                                     | 1,843                           | 555      | 257     | 416                | 26                 | —                    | 2,154    | 801      | 142                                         | 6,194  |         |
|                       | Asyût ... ..       | 976,300                                     | 8,346                           | 1,789    | 1,178   | 994                | 55                 | 6                    | 8,975    | 2,624    | 769                                         | 24,736 |         |
|                       | Beni Suef ... ..   | 562,300                                     | 4,029                           | 1,010    | 560     | 826                | 85                 | 4                    | 4,338    | 1,670    | 506                                         | 13,028 |         |
|                       | Fayoum ... ..      | 600,300                                     | 5,029                           | 1,504    | 758     | 1,305              | 120                | 12                   | 5,280    | 2,595    | 853                                         | 17,456 |         |
|                       | Girga ... ..       | 951,800                                     | 8,378                           | 1,635    | 1,105   | 952                | 58                 | 4                    | 9,024    | 2,531    | 575                                         | 24,260 |         |
|                       | Giza ... ..        | 600,800                                     | 5,006                           | 1,467    | 669     | 1,138              | 96                 | 7                    | 5,446    | 2,390    | 548                                         | 16,768 |         |
|                       | Minia ... ..       | 782,900                                     | 6,391                           | 1,416    | 959     | 1,013              | 83                 | 8                    | 6,932    | 2,242    | 699                                         | 19,746 |         |
|                       | Kena ... ..        | 959,500                                     | 7,416                           | 1,999    | 1,081   | 1,163              | 86                 | 15                   | 8,325    | 2,872    | 563                                         | 23,520 |         |
|                       |                    | TOTAL ...                                   | 14,921,300                      | 126,070  | 32,303  | 17,106             | 23,529             | 1900                 | 178      | 133,469  | 51,355                                      | 16,262 | 402,172 |
| Christians            | ORTHODOX :         |                                             |                                 |          |         |                    |                    |                      |          |          |                                             |        |         |
|                       | Copts ... ..       | 1,013,500                                   | 5,964                           | 84       | 801     | —                  | —                  | —                    | 6,438    | 67       | 344                                         | 13,698 |         |
|                       | Others ... ..      | 157,900                                     | 855                             | 14       | 28      | —                  | —                  | —                    | 849      | 15       | 33                                          | 1,794  |         |
|                       |                    | TOTAL ...                                   | 1,171,400                       | 6,819    | 98      | 829                | —                  | —                    | —        | 7,287    | 82                                          | 377    | 15,492  |
|                       | CATHOLICS :        |                                             |                                 |          |         |                    |                    |                      |          |          |                                             |        |         |
|                       | Copts ... ..       | 28,300                                      | 204                             | —        | 27      | —                  | —                  | —                    | 211      | 1        | 19                                          | 462    |         |
|                       | Others ... ..      | 115,000                                     | 591                             | 6        | 49      | —                  | —                  | —                    | 609      | 9        | 28                                          | 1,292  |         |
|                       |                    | TOTAL ...                                   | 143,300                         | 795      | 6       | 76                 | —                  | —                    | —        | 820      | 10                                          | 47     | 1,754   |
|                       | PROTESTANTS :      |                                             |                                 |          |         |                    |                    |                      |          |          |                                             |        |         |
|                       | Copts ... ..       | 59,800                                      | 363                             | 4        | 71      | —                  | —                  | —                    | 398      | 1        | 39                                          | 876    |         |
|                       | Others ... ..      | 17,900                                      | 99                              | 10       | 11      | —                  | —                  | —                    | 108      | 9        | 3                                           | 240    |         |
|                       |                    | TOTAL ...                                   | 77,700                          | 462      | 14      | 82                 | —                  | —                    | —        | 506      | 10                                          | 42     | 1,116   |
|                       | Jews ... ..        | 77,900                                      | 451                             | 33       | 22      | —                  | —                  | —                    | 413      | 35       | 9                                           | 1,034  |         |
|                       | OTHER RELIGIONS    | 3,800                                       | 5                               | —        | 1       | 1                  | —                  | —                    | 6        | —        | —                                           | 12     |         |
|                       |                    | GRAND TOTAL                                 | 16,401,400                      | 134,612  | 32,454  | 18,116             | 23,536             | 1900                 | 178      | 142,561  | 51,492                                      | 16,737 | 421,580 |

PERSONS MARRIED IN EGYPT, YEAR 1935.

| Age of Marriage |             |             |             |             |             |             |             |                   |                |             |             |             |             |             |             |             |                   |  |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|--|
| Bridegroom      |             |             |             |             |             |             |             |                   | Bride          |             |             |             |             |             |             |             |                   |  |
| Under 20 Years  | 20-24 Years | 25-29 Years | 30-34 Years | 35-39 Years | 40-49 Years | 50-59 Years | 60-69 Years | 70 Years and over | Under 20 Years | 20-24 Years | 25-29 Years | 30-34 Years | 35-39 Years | 40-49 Years | 50-59 Years | 60-69 Years | 70 Years and over |  |
| 362             | 3,336       | 4,373       | 3,112       | 2,299       | 1,809       | 509         | 146         | 35                | 6,374          | 3,348       | 2,723       | 1,633       | 984         | 791         | 114         | 13          | 1                 |  |
| 130             | 1,450       | 2,109       | 1,354       | 888         | 788         | 205         | 40          | 14                | 3,056          | 1,555       | 983         | 660         | 417         | 255         | 47          | 4           | 1                 |  |
| 52              | 551         | 525         | 275         | 203         | 190         | 73          | 20          | 9                 | 906            | 382         | 230         | 148         | 115         | 96          | 17          | 4           | —                 |  |
| 5               | 98          | 196         | 64          | 31          | 26          | 12          | 3           | —                 | 218            | 125         | 46          | 25          | 12          | 6           | 3           | —           | —                 |  |
| 16              | 94          | 139         | 80          | 104         | 86          | 29          | 5           | 1                 | 266            | 46          | 59          | 51          | 51          | 74          | 7           | —           | —                 |  |
| 76              | 280         | 222         | 111         | 103         | 91          | 37          | 17          | 6                 | 516            | 161         | 107         | 64          | 43          | 35          | 16          | 1           | —                 |  |
| 315             | 4,767       | 4,181       | 1,826       | 1,225       | 1,073       | 395         | 107         | 37                | 4,027          | 5,872       | 2,075       | 1,030       | 534         | 320         | 60          | 8           | —                 |  |
| ,029            | 5,887       | 4,595       | 2,041       | 1,331       | 1,222       | 481         | 171         | 57                | 7,441          | 4,736       | 2,035       | 1,333       | 643         | 497         | 112         | 16          | 1                 |  |
| ,133            | 9,903       | 8,154       | 3,698       | 2,451       | 2,213       | 858         | 262         | 84                | 9,890          | 10,315      | 4,012       | 2,169       | 1,225       | 918         | 196         | 26          | 5                 |  |
| ,017            | 5,813       | 4,294       | 1,887       | 1,381       | 1,337       | 532         | 179         | 56                | 7,809          | 4,281       | 2,006       | 1,054       | 691         | 487         | 130         | 34          | 4                 |  |
| 482             | 2,786       | 2,153       | 995         | 719         | 650         | 276         | 98          | 28                | 3,729          | 2,067       | 1,119       | 590         | 311         | 291         | 71          | 8           | 1                 |  |
| ,917            | 6,257       | 4,440       | 2,001       | 1,395       | 1,388       | 545         | 175         | 46                | 7,348          | 4,863       | 2,220       | 1,256       | 820         | 611         | 130         | 13          | 3                 |  |
| 80              | 570         | 922         | 538         | 401         | 382         | 138         | 55          | 11                | 1,624          | 597         | 454         | 236         | 124         | 54          | 7           | 1           | —                 |  |
| 457             | 2,869       | 4,632       | 1,814       | 1,036       | 991         | 388         | 149         | 32                | 6,187          | 2,688       | 1,904       | 803         | 421         | 293         | 61          | 9           | 2                 |  |
| 227             | 1,554       | 2,051       | 993         | 634         | 730         | 236         | 61          | 28                | 2,899          | 1,671       | 911         | 548         | 263         | 185         | 34          | 3           | —                 |  |
| 187             | 2,250       | 2,435       | 1,398       | 917         | 969         | 393         | 133         | 46                | 3,307          | 2,504       | 1,317       | 850         | 389         | 294         | 60          | 7           | —                 |  |
| 281             | 3,207       | 4,394       | 1,733       | 1,020       | 928         | 379         | 146         | 42                | 5,656          | 3,378       | 1,783       | 722         | 327         | 217         | 38          | 9           | —                 |  |
| 448             | 2,710       | 2,266       | 1,071       | 754         | 693         | 323         | 89          | 30                | 4,086          | 2,166       | 1,013       | 532         | 314         | 227         | 43          | 3           | —                 |  |
| 337             | 2,963       | 2,961       | 1,341       | 958         | 863         | 327         | 99          | 24                | 4,562          | 2,680       | 1,252       | 687         | 391         | 270         | 24          | 7           | —                 |  |
| 202             | 2,637       | 4,209       | 1,963       | 1,077       | 1,069       | 442         | 123         | 38                | 6,029          | 2,594       | 1,893       | 732         | 311         | 177         | 20          | 4           | —                 |  |
| 8,853           | 59,982      | 59,251      | 28,295      | 18,921      | 17,498      | 6,518       | 2,018       | 624               | 85,930         | 56,029      | 28,142      | 15,123      | 3,386       | 6,098       | 1,190       | 170         | 18                |  |
| 578             | 3,239       | 1,802       | 499         | 333         | 250         | 109         | 30          | 9                 | 5,338          | 988         | 281         | 117         | 67          | 47          | 7           | 3           | 1                 |  |
| 1               | 147         | 299         | 235         | 121         | 72          | 19          | 3           | —                 | 119            | 437         | 232         | 58          | 29          | 20          | 1           | —           | 1                 |  |
| 579             | 3,386       | 2,101       | 734         | 454         | 322         | 128         | 33          | 9                 | 5,457          | 1,425       | 513         | 175         | 96          | 67          | 8           | 3           | 2                 |  |
| 37              | 65          | 73          | 28          | 7           | 15          | 3           | 3           | —                 | 126            | 61          | 25          | 7           | 8           | 4           | —           | —           | —                 |  |
| 3               | 98          | 240         | 147         | 74          | 56          | 20          | 3           | 5                 | 71             | 251         | 187         | 69          | 41          | 17          | 8           | 2           | —                 |  |
| 40              | 63          | 313         | 175         | 81          | 71          | 23          | 6           | 5                 | 197            | 312         | 212         | 76          | 49          | 21          | 8           | 2           | —                 |  |
| 32              | 175         | 137         | 34          | 21          | 24          | 9           | 5           | 1                 | 303            | 83          | 30          | 8           | 7           | 6           | 1           | —           | —                 |  |
| —               | 16          | 39          | 33          | 16          | 11          | 4           | 1           | —                 | 8              | 36          | 33          | 26          | 10          | 4           | 2           | 1           | —                 |  |
| 32              | 191         | 176         | 67          | 37          | 35          | 13          | 6           | 1                 | 311            | 119         | 63          | 34          | 17          | 10          | 3           | 1           | —                 |  |
| 7               | 117         | 183         | 116         | 48          | 36          | 6           | 3           | 1                 | 108            | 251         | 109         | 34          | 6           | 6           | 3           | —           | —                 |  |
| 1               | —           | 1           | 1           | 1           | 1           | 1           | —           | —                 | 1              | 1           | 1           | 2           | —           | 1           | —           | —           | —                 |  |
| 8,512           | 63,839      | 62,025      | 29,388      | 19,548      | 17,953      | 6,749       | 2,126       | 640               | 92,004         | 58,137      | 29,040      | 15,444      | 8,554       | 6,203       | 1,212       | 176         | 20                |  |

TABLE No. 5 SHOWING DIVORCE CASES IN EGYPT CLASSIFIED BY DURATION OF MARRIED LIFE, NUMBER OF ISSUE, RELIGION AND LOCALITY, YEAR 1935.

| Religion         | Governorates and Provinces | Estimated Population up to 1st July 1935 | Duration of Marriage |                      |           |           |             |             | Total Number of Divorces | Persons Divorced per 1000 Marriages | Classified by the number of Live Children born during the Marriage |              |                |               |               |                       |                   |  |
|------------------|----------------------------|------------------------------------------|----------------------|----------------------|-----------|-----------|-------------|-------------|--------------------------|-------------------------------------|--------------------------------------------------------------------|--------------|----------------|---------------|---------------|-----------------------|-------------------|--|
|                  |                            |                                          | Duration of Marriage |                      |           |           |             |             |                          |                                     | One Child                                                          | Two Children | Three Children | Four Children | Five Children | Six Children and over |                   |  |
|                  |                            |                                          | Under 6 Months       | 6 Months to one Year | 1-4 Years | 5-9 Years | 10-14 Years | 15-19 Years |                          |                                     |                                                                    |              |                |               |               |                       | 20 Years and over |  |
| Moslems          | GOVERNORATES :-            |                                          |                      |                      |           |           |             |             |                          |                                     |                                                                    |              |                |               |               |                       |                   |  |
|                  | Cairo ... ..               | 1,049,000                                | 2,192                | 1,011                | 3,087     | 1,135     | 411         | 224         | 152                      | 8,212                               | 15.7                                                               | 1,163        | 552            | 266           | 99            | 47                    | 24                |  |
|                  | Alexandria ... ..          | 514,900                                  | 749                  | 385                  | 1,206     | 485       | 191         | 85          | 113                      | 3,214                               | 12.5                                                               | 515          | 223            | 137           | 75            | 31                    | 22                |  |
|                  | Canal ... ..               | 149,700                                  | 172                  | 108                  | 298       | 120       | 38          | 24          | 32                       | 792                                 | 10.6                                                               | 127          | 43             | 22            | 16            | 13                    | 10                |  |
|                  | Damietta ... ..            | 38,700                                   | 35                   | 13                   | 44        | 12        | 4           | 6           | 10                       | 124                                 | 6.4                                                                | 16           | 5              | 4             | 5             | 3                     | 4                 |  |
|                  | Suez... ..                 | 37,700                                   | 60                   | 33                   | 100       | 40        | 27          | 8           | 11                       | 279                                 | 14.8                                                               | 50           | 19             | 12            | 3             | 2                     | —                 |  |
|                  | Frontier Districts...      | 109,000                                  | 64                   | 47                   | 144       | 55        | 20          | 6           | 8                        | 344                                 | 6.3                                                                | 47           | 18             | 13            | 1             | 1                     | 2                 |  |
|                  | LOWER EGYPT :-             |                                          |                      |                      |           |           |             |             |                          |                                     |                                                                    |              |                |               |               |                       |                   |  |
|                  | Behera ... ..              | 1,095,200                                | 262                  | 254                  | 1,035     | 433       | 232         | 75          | 65                       | 2,356                               | 4.3                                                                | 442          | 138            | 63            | 22            | 8                     | 13                |  |
|                  | Dakahlia ... ..            | 1,225,400                                | 589                  | 487                  | 1,789     | 715       | 311         | 131         | 124                      | 4,146                               | 6.8                                                                | 812          | 241            | 104           | 43            | 22                    | 27                |  |
|                  | Gharbia ... ..             | 1,970,800                                | 1,070                | 825                  | 2,927     | 1,171     | 530         | 201         | 193                      | 6,917                               | 7.0                                                                | 1,260        | 360            | 153           | 67            | 37                    | 56                |  |
|                  | Menoufia...                | 1,208,100                                | 529                  | 542                  | 1,879     | 728       | 335         | 149         | 119                      | 4,281                               | 7.1                                                                | 758          | 181            | 75            | 27            | 18                    | 15                |  |
|                  | Kaliubia ... ..            | 696,600                                  | 337                  | 296                  | 1,146     | 415       | 179         | 74          | 39                       | 2,486                               | 7.1                                                                | 477          | 121            | 50            | 17            | 7                     | 7                 |  |
|                  | Sharkia ... ..             | 1,111,000                                | 834                  | 628                  | 2,209     | 824       | 289         | 127         | 127                      | 5,038                               | 9.1                                                                | 939          | 292            | 110           | 61            | 17                    | 22                |  |
| UPPER EGYPT :-   |                            |                                          |                      |                      |           |           |             |             |                          |                                     |                                                                    |              |                |               |               |                       |                   |  |
| Aswân ... ..     | 287,300                    | 57                                       | 92                   | 423                  | 240       | 94        | 41          | 44          | 991                      | 6.9                                 | 234                                                                | 85           | 36             | 11            | 5             | 4                     |                   |  |
| Asyût ... ..     | 976,300                    | 281                                      | 322                  | 1,188                | 511       | 270       | 94          | 77          | 2,743                    | 5.6                                 | 585                                                                | 176          | 58             | 26            | 14            | 10                    |                   |  |
| Beni Suef ... .. | 562,300                    | 215                                      | 190                  | 799                  | 300       | 166       | 54          | 52          | 1,776                    | 6.3                                 | 370                                                                | 98           | 43             | 11            | 6             | 6                     |                   |  |
| Fayoum ... ..    | 600,300                    | 287                                      | 321                  | 1,153                | 406       | 278       | 72          | 47          | 2,564                    | 8.5                                 | 493                                                                | 137          | 50             | 18            | 5             | 7                     |                   |  |
| Girga ... ..     | 951,800                    | 231                                      | 269                  | 1,011                | 436       | 167       | 70          | 51          | 2,235                    | 4.7                                 | 505                                                                | 139          | 39             | 26            | 10            | 5                     |                   |  |
| Giza ... ..      | 600,800                    | 321                                      | 312                  | 1,166                | 487       | 250       | 99          | 50          | 2,685                    | 8.9                                 | 591                                                                | 175          | 55             | 20            | 9             | 10                    |                   |  |
| Minia ... ..     | 782,900                    | 237                                      | 221                  | 974                  | 399       | 200       | 78          | 42          | 2,151                    | 5.5                                 | 469                                                                | 131          | 33             | 19            | 4             | 7                     |                   |  |
| Kena ... ..      | 959,500                    | 353                                      | 409                  | 1,415                | 611       | 232       | 95          | 78          | 3,193                    | 6.7                                 | 707                                                                | 170          | 81             | 22            | 8             | 6                     |                   |  |
|                  | TOTAL                      | 14,927,300                               | 8,875                | 6,765                | 23,993    | 9,523     | 4,224       | 1,713       | 1,434                    | 56,527                              | 7.6                                                                | 40,146       | 3,304          | 1,404         | 589           | 267                   | 257               |  |

| Orthodox:  |         | Copts* |        | Others |       | TOTAL |       | CATHOLICS: |     | Copts  |        | Others |       | TOTAL |     | PROTESTANTS: |     | Copts |   | Others |   | TOTAL |   | Jews |   | Other Religions |   | GRAND TOTAL |     |
|------------|---------|--------|--------|--------|-------|-------|-------|------------|-----|--------|--------|--------|-------|-------|-----|--------------|-----|-------|---|--------|---|-------|---|------|---|-----------------|---|-------------|-----|
| 1,013,500  | 157,900 | —      | 1      | —      | 2     | —     | 20    | —          | 19  | —      | 15     | 10     | —     | 11    | —   | 78           | (†) | 0.2   | — | 7      | — | 6     | — | 1    | — | —               | — | —           | 258 |
| 1,171,400  | —       | 1      | 2      | 20     | 19    | 15    | 10    | 11         | 78  | (†)    | 0.3    | 63     | 7     | 6     | 1   | 1            | —   | —     | — | 2      | — | —     | — | —    | — | —               | — | —           | —   |
| 28,300     | 115,000 | —      | —      | —      | 1     | 1     | 1     | 1          | 5   | —      | 0.1    | 2      | 2     | —     | 1   | —            | —   | —     | — | —      | — | —     | — | —    | — | —               | — | —           | —   |
| 143,300    | —       | —      | 1      | 1      | 1     | 1     | 1     | 1          | 5   | 0.1    | 2      | 2      | —     | —     | —   | —            | —   | —     | — | —      | — | —     | — | —    | — | —               | — | —           | —   |
| 59,800     | 17,900  | —      | —      | —      | 1     | 2     | —     | 2          | 3   | 0.1    | —      | —      | —     | 1     | —   | —            | —   | —     | — | —      | — | —     | — | —    | — | —               | — | —           | —   |
| 77,700     | —       | —      | 1      | 1      | 1     | 2     | 1     | 3          | 8   | 0.2    | 3      | 2      | 1     | —     | —   | —            | —   | —     | — | —      | — | —     | — | —    | — | —               | — | —           | —   |
| 77,900     | 3,800   | 1      | 1      | 27     | 18    | 9     | 5     | 5          | 66  | 1.7    | 34     | 18     | 7     | 4     | 1   | 2            | 1   | —     | — | —      | — | —     | — | —    | — | —               | — | —           | —   |
| 16,401,400 | 8,877   | 6,768  | 24,042 | 9,563  | 4,252 | 1,730 | 1,454 | 56,686     | 6.9 | 40,249 | 10,589 | 3,319  | 1,410 | 592   | 270 | 258          | —   | —     | — | —      | — | —     | — | —    | — | —               | — | —           | —   |

\* 77 cases of divorces of Orthodox Copts have not been classified in this table owing to lack of complete data.

† Rate obtained after adding 77 divorces of Orthodox Copts not classified in this table.

TABLE NO. 6.—SHOWING NUMBER AND CAUSES OF DIVORCED CASES REGISTERED

| Religion   | Governorates and Provinces | Total Number of Divorces | CAUSES       |                             |         |          |                               |              |                        |          |            |           |
|------------|----------------------------|--------------------------|--------------|-----------------------------|---------|----------|-------------------------------|--------------|------------------------|----------|------------|-----------|
|            |                            |                          | From Husband |                             |         |          |                               |              |                        |          |            |           |
|            |                            |                          | Illness      | Neglect to keep and provide | Old Age | Polygamy | Cruelty and abusive treatment | Intoxication | Addiction to Narcotics | Gambling | Negligence | Disliking |
| Moslems    | GOVERNORATES :             |                          |              |                             |         |          |                               |              |                        |          |            |           |
|            | Cairo ... ..               | 8,212                    | 10           | 1,306                       | 28      | 686      | 39                            | 43           | 4                      | 95       | 69         | 1,576     |
|            | Alexandria ... ..          | 3,214                    | 23           | 613                         | 36      | 293      | 45                            | 45           | 25                     | 36       | 17         | 410       |
|            | Canal ... ..               | 792                      | 1            | 92                          | 6       | 73       | 1                             | 1            | —                      | 3        | 1          | 202       |
|            | Damietta ... ..            | 124                      | —            | 4                           | —       | 8        | —                             | —            | —                      | —        | —          | 39        |
|            | Suez... ..                 | 279                      | —            | 28                          | 2       | 35       | 1                             | 1            | —                      | —        | —          | 22        |
|            | Frontier Districts ...     | 344                      | —            | 10                          | 1       | 20       | 2                             | —            | —                      | —        | —          | 189       |
|            | LOWER EGYPT :              |                          |              |                             |         |          |                               |              |                        |          |            |           |
|            | Behera ... ..              | 2,356                    | 8            | 147                         | 8       | 308      | 6                             | —            | —                      | 16       | 2          | 1,033     |
|            | Dakahlia ... ..            | 4,146                    | 17           | 257                         | 9       | 380      | 8                             | —            | —                      | 25       | 14         | 1,682     |
|            | Gharbia ... ..             | 6,917                    | 37           | 570                         | 20      | 733      | 16                            | 4            | 1                      | 44       | 30         | 2,658     |
|            | Menoufia... ..             | 4,281                    | 15           | 224                         | 16      | 302      | 23                            | —            | —                      | 36       | 6          | 1,731     |
|            | Kaliubia... ..             | 2,486                    | 9            | 162                         | 3       | 131      | 11                            | —            | —                      | 22       | 3          | 1,071     |
|            | Sharkia ... ..             | 5,038                    | 13           | 148                         | 5       | 407      | 20                            | 6            | 1                      | 63       | 3          | 2,198     |
|            | UPPER EGYPT :              |                          |              |                             |         |          |                               |              |                        |          |            |           |
|            | Aswân ... ..               | 991                      | —            | 55                          | 1       | 33       | —                             | 1            | —                      | 3        | 2          | 617       |
|            | Asyut ... ..               | 2,743                    | 1            | 134                         | 10      | 227      | 4                             | —            | —                      | 24       | —          | 1,293     |
|            | Beni Suef ... ..           | 1,776                    | 3            | 70                          | 2       | 169      | 3                             | 1            | —                      | 15       | 1          | 750       |
|            | Fayoum ... ..              | 2,564                    | 5            | 136                         | —       | 252      | 2                             | —            | —                      | 6        | 6          | 1,011     |
|            | Girga ... ..               | 2,235                    | 2            | 104                         | 3       | 177      | 6                             | —            | —                      | 5        | —          | 1,414     |
|            | Giza ... ..                | 2,685                    | 10           | 196                         | 9       | 257      | 6                             | 1            | —                      | 37       | —          | 952       |
|            | Minia ... ..               | 2,151                    | 4            | 78                          | 2       | 158      | 7                             | 2            | —                      | 7        | —          | 932       |
|            | Kena ... ..                | 3,193                    | 4            | 121                         | 9       | 172      | —                             | —            | —                      | 8        | 1          | 1,660     |
|            | TOTAL ... ..               | 56,527                   | 162          | 4,455                       | 170     | 4,821    | 200                           | 105          | 31                     | 445      | 155        | 21,440    |
| Christians | ORTHODOX :                 |                          |              |                             |         |          |                               |              |                        |          |            |           |
|            | Copts * ... ..             | —                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | Others ... ..              | 78                       | 1            | —                           | 1       | —        | —                             | —            | —                      | 2        | 5          | 8         |
|            | TOTAL ... ..               | 78                       | 1            | —                           | 1       | —        | —                             | —            | —                      | 2        | 5          | 8         |
|            | CATHOLICS :                |                          |              |                             |         |          |                               |              |                        |          |            |           |
|            | Copts ... ..               | —                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | Others ... ..              | 5                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | TOTAL ... ..               | 5                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | PROTESTANTS :              |                          |              |                             |         |          |                               |              |                        |          |            |           |
|            | Copts ... ..               | 3                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | Others ... ..              | 5                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | TOTAL ... ..               | 8                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | JEWS ... ..                | 66                       | 1            | —                           | —       | —        | 2                             | —            | —                      | 3        | —          | 7         |
|            | OTHER RELIGIONS...         | 2                        | —            | —                           | —       | —        | —                             | —            | —                      | —        | —          | —         |
|            | GRAND TOTAL* ... ..        | 56,686                   | 164          | 4,455                       | 171     | 4,821    | 202                           | 105          | 31                     | 450      | 160        | 21,455    |

\* Please see remark on table No. 5 on Divorces.

EGYPT CLASSIFIED BY RELIGION AND LOCALITY, YEAR 1935.

| DIVORCES  |         |           |              |            |                                      |            |           |              |                                      |           |                       |                 |          |                         |              |  |
|-----------|---------|-----------|--------------|------------|--------------------------------------|------------|-----------|--------------|--------------------------------------|-----------|-----------------------|-----------------|----------|-------------------------|--------------|--|
| From Wife |         |           |              |            |                                      |            |           |              | From both Husband and Wife           |           |                       |                 |          |                         |              |  |
| Illness   | Old Age | Sterility | Misbehaviour | Misconduct | Abandonment<br>of<br>Husband's house | Negligence | Disliking | Other Causes | Mutual Negligence<br>of Matrim. life | Disliking | Breach<br>of Contract | Incompatibility | Quarrels | Mutual<br>ill-treatment | Other Causes |  |
| 34        | 29      | 400       | 188          | 103        | 45                                   | 304        | 467       | 214          | 21                                   | 274       | 15                    | 1,170           | 436      | 106                     | 85           |  |
| 22        | 17      | 104       | 112          | 80         | 34                                   | 29         | 204       | 200          | 4                                    | 95        | 16                    | 300             | 197      | 4                       | 30           |  |
| 1         | 2       | 36        | 15           | 2          | 14                                   | 1          | 102       | 73           | —                                    | 28        | 3                     | 73              | 12       | 6                       | 1            |  |
| —         | 2       | 2         | 4            | —          | —                                    | 7          | 19        | 3            | —                                    | 23        | 8                     | 2               | 1        | 1                       | —            |  |
| 1         | 4       | 23        | 16           | 6          | 9                                    | 2          | 20        | 46           | —                                    | 1         | —                     | 29              | 1        | 2                       | 1            |  |
| —         | —       | 21        | —            | —          | —                                    | 1          | 25        | 3            | —                                    | 37        | —                     | 2               | 1        | 1                       | 1            |  |
| 2         | 3       | 139       | 8            | 6          | 1                                    | 4          | 290       | 19           | —                                    | 107       | —                     | 109             | 33       | 34                      | 8            |  |
| 26        | 5       | 219       | 17           | 24         | 8                                    | 6          | 684       | 83           | —                                    | 287       | 1                     | 107             | 82       | 95                      | 30           |  |
| 33        | 15      | 313       | 65           | 28         | 13                                   | 19         | 970       | 121          | 5                                    | 464       | 1                     | 206             | 211      | 119                     | 34           |  |
| 16        | 5       | 192       | 19           | 4          | 1                                    | 3          | 577       | 66           | —                                    | 300       | —                     | 147             | 355      | 18                      | 62           |  |
| 4         | —       | 106       | 6            | 4          | —                                    | 3          | 384       | 24           | —                                    | 250       | —                     | 98              | 88       | 48                      | 7            |  |
| 6         | 2       | 280       | 5            | 7          | 9                                    | 3          | 1,060     | 36           | —                                    | 389       | 1                     | 154             | 53       | 41                      | 24           |  |
| 3         | —       | 54        | 6            | 2          | 5                                    | 1          | 37        | 41           | —                                    | 61        | —                     | 25              | 19       | —                       | 6            |  |
| 2         | 6       | 98        | 15           | 4          | 5                                    | —          | 384       | 68           | —                                    | 139       | —                     | 60              | 143      | 44                      | 5            |  |
| 5         | 7       | 74        | 12           | 13         | 1                                    | 4          | 155       | 49           | 4                                    | 113       | 1                     | 124             | 69       | 56                      | 23           |  |
| 1         | —       | 99        | 5            | —          | —                                    | 29         | 288       | 13           | 6                                    | 300       | —                     | 190             | 169      | 4                       | 4            |  |
| 4         | —       | 82        | 2            | 4          | —                                    | —          | 148       | 10           | —                                    | 129       | —                     | 46              | 42       | 17                      | 10           |  |
| 6         | 7       | 123       | 18           | 13         | —                                    | 7          | 417       | 52           | 3                                    | 114       | —                     | 231             | 43       | 47                      | 22           |  |
| 5         | 2       | 85        | 12           | 4          | —                                    | 1          | 351       | 41           | —                                    | 214       | —                     | 97              | 75       | 12                      | 18           |  |
| 9         | 2       | 115       | 13           | 4          | —                                    | 3          | 238       | 64           | 1                                    | 201       | —                     | 33              | 368      | 91                      | 19           |  |
| 180       | 108     | 2,565     | 538          | 308        | 145                                  | 427        | 6,820     | 1,226        | 44                                   | 3,526     | 46                    | 3,203           | 2,398    | 710                     | 390          |  |
| —         | —       | —         | —            | —          | —                                    | —          | —         | —            | —                                    | —         | —                     | —               | —        | —                       | —            |  |
| —         | —       | —         | 1            | 6          | 1                                    | 3          | 2         | 3            | —                                    | 7         | —                     | 8               | —        | 1                       | —            |  |
| —         | —       | —         | 1            | 6          | 1                                    | 3          | 2         | 3            | —                                    | 7         | —                     | 8               | —        | 1                       | —            |  |
| —         | —       | —         | —            | —          | —                                    | —          | —         | —            | —                                    | —         | —                     | —               | —        | —                       | —            |  |
| —         | —       | —         | 2            | 1          | —                                    | —          | —         | 1            | —                                    | —         | —                     | —               | 1        | —                       | —            |  |
| —         | —       | —         | 2            | 1          | —                                    | —          | —         | 1            | —                                    | —         | —                     | —               | 1        | —                       | —            |  |
| —         | —       | —         | —            | 2          | —                                    | —          | —         | —            | —                                    | —         | —                     | —               | —        | —                       | —            |  |
| —         | —       | —         | 1            | —          | —                                    | —          | —         | —            | 3                                    | —         | —                     | —               | —        | —                       | —            |  |
| —         | —       | —         | 1            | 2          | —                                    | —          | —         | —            | 3                                    | —         | —                     | —               | —        | —                       | —            |  |
| 3         | —       | 5         | —            | 2          | —                                    | 1          | 6         | 4            | —                                    | —         | —                     | 17              | 4        | —                       | 4            |  |
| —         | —       | —         | —            | 1          | —                                    | —          | —         | 1            | —                                    | —         | —                     | —               | —        | —                       | —            |  |
| 183       | 108     | 2,570     | 542          | 320        | 146                                  | 431        | 6,828     | 1,235        | 47                                   | 3,533     | 46                    | 3,228           | 2,403    | 711                     | 394          |  |

# CHAPTER I.

## PUBLIC HEALTH

### A.—POPULATION.

The estimated population of Egypt in mid-year 1935 was 16,401,400 as compared with 16,143,400 in 1934, *i.e.* an increase of 258,000 inhabitants.

### B.—BIRTHS AND DEATHS.

#### 1. Births.

The number of births registered during 1935 throughout Egypt was 645,760, *i.e.* a birth-rate of 39·4 per thousand of population as compared with 40·3 in the previous year.

The highest birth-rate in the provinces is still in Giza Province where there were 50 births per thousand of population. The lowest birth-rate is also in Behera Province where there were 32·3 births per thousand of population.

#### 2. Deaths.

The number of deaths was 412,197 or a death-rate of 25·1 per thousand of population as compared with 26·6 in the previous year.

#### 3. Diseases causing Death and Age and Sex Distribution of Deaths.

Tabel No. 8 shows the principal diseases causing death in localities having a Health Office.

Table No. 9 shows the number and rates of deaths in localities having a Health Office.

#### 4. Infantile Mortality.

The number of deaths of infants recorded in Egypt was 103,729 or an infantile mortality-rate of 160·6 per thousand births as compared with 166·4 in the previous year.

TABLE NO. 7.—SHOWING BIRTHS, DEATHS AND INFANTILE MORTALITY IN EGYPT DURING 1935.

|                                              | Estimated<br>Population<br>Mid-1935 | Births  |      | Deaths  |      | Infantile Mortality |       |
|----------------------------------------------|-------------------------------------|---------|------|---------|------|---------------------|-------|
|                                              |                                     | Number  | Rate | Number  | Rate | Number              | Rate  |
| GOVERNORATES :—                              |                                     |         |      |         |      |                     |       |
| Urban (Cities only) * ...                    | 2,250,300                           | 89,005  | 39·6 | 51,618  | 24·3 | 17,490              | 196·5 |
| Urban and Rural... ..                        | 2,396,900                           | 94,455  | 39·4 | 58,371  | 24·4 | 18,411              | 194·9 |
| LOWER EGYPT :—                               |                                     |         |      |         |      |                     |       |
| Urban ( <i>Bandars</i> only) *               | 838,000                             | 37,207  | 44·4 | 25,087  | 29·9 | 6,780               | 182·2 |
| Urban and Rural... ..                        | 7,470,900                           | 281,905 | 38·1 | 194,010 | 26·0 | 42,589              | 149·5 |
| UPPER EGYPT :—                               |                                     |         |      |         |      |                     |       |
| Urban ( <i>Bandars</i> only) *               | 776,500                             | 38,129  | 49·1 | 27,500  | 35·4 | 9,008               | 236·3 |
| Urban and Rural... ..                        | 6,533,600                           | 266,400 | 40·8 | 159,786 | 24·5 | 42,730              | 160·4 |
| EGYPT :—                                     |                                     |         |      |         |      |                     |       |
| Urban (Cities and<br><i>Bandars</i> ) ... .. | 3,864,800                           | 164,341 | 42·5 | 107,235 | 27·7 | 33,278              | 202·5 |
| TOTAL (all over Egypt)                       |                                     |         |      |         |      |                     |       |
|                                              | 16,401,400                          | 645,760 | 39·4 | 412,197 | 25·1 | 103,730             | 160·6 |

\* Urban comprises all towns having a Health Office, provided there is a pure drinking water installation and a Municipal or Local Council.

TABLE NO. 8.—SHOWING DISEASES CAUSING DEATHS IN LOCALITIES HAVING PUBLIC HEALTH OFFICES DURING 1935, AS COMPARED WITH THOSE OF 1934.

| Disease                                                                                                | Total Number of Deaths |         | Death-rate per 1000 of Total Deaths |       |
|--------------------------------------------------------------------------------------------------------|------------------------|---------|-------------------------------------|-------|
|                                                                                                        | 1935                   | 1934    | 1935                                | 1934  |
| Notifiable Infectious and parasitic diseases, exclusive of those marked * hereunder ... ..             | 3,941                  | 5,722   | 30·1                                | 41·9  |
| Pulmonary tuberculosis * ... ..                                                                        | 2,013                  | 1,962   | 15·4                                | 14·4  |
| Other tuberculous diseases ... ..                                                                      | 570                    | 602     | 4·4                                 | 4·4   |
| Syphilis ... ..                                                                                        | 343                    | 366     | 2·6                                 | 2·7   |
| Malaria * ... ..                                                                                       | 39                     | 22      | 0·3                                 | 0·2   |
| Dysentery ... ..                                                                                       | 472                    | 559     | 3·6                                 | 4·1   |
| Pneumonia (acute, chronic and non-chronic, including broncho-pneumonia and capillary bronchitis ... .. | 11,919                 | 13,627  | 91·1                                | 99·7  |
| Bronchitis ... ..                                                                                      | 8,827                  | 9,140   | 67·5                                | 67·1  |
| Other respiratory system diseases ... ..                                                               | 1,584                  | 1,551   | 12·1                                | 11·4  |
| Heart diseases ... ..                                                                                  | 5,589                  | 5,341   | 42·7                                | 39·1  |
| Other diseases of the circulatory system ... ..                                                        | 84                     | 102     | 0·6                                 | 0·7   |
| Diseases of urinary and genital system (other than venereal) ... ..                                    | 5,074                  | 5,022   | 38·8                                | 36·8  |
| Diseases of puerperium and delivery (other than puerperal septicaemia) ... ..                          | 602                    | 577     | 4·6                                 | 4·2   |
| Diseases of diarrhoea and enteritis ... ..                                                             | 44,358                 | 47,136  | 339·0                               | 345·4 |
| Senility ... ..                                                                                        | 12,937                 | 12,596  | 98·8                                | 92·3  |
| Accidental deaths, including suicides ... ..                                                           | 3,954                  | 3,785   | 30·2                                | 27·7  |
| Other causes ... ..                                                                                    | 28,557                 | 28,380  | 218·2                               | 207·9 |
| Total Deaths ... ..                                                                                    | 130,863                | 136,490 | 1,000                               | 1,000 |

TABLE NO. 9.—SHOWING THE AGE AND SEX DISTRIBUTION OF DEATHS IN LOCALITIES HAVING A HEALTH OFFICE DURING 1935, AS COMPARED WITH THOSE OF 1934.

| Age                    | Number of Deaths |        |        |        | Total   |         | Percentage to Total Deaths |      |
|------------------------|------------------|--------|--------|--------|---------|---------|----------------------------|------|
|                        | Male             |        | Female |        |         |         |                            |      |
|                        | 1935             | 1934   | 1935   | 1934   | 1935    | 1934    | 1935                       | 1934 |
| Less than one year ... | 21,409           | 22,287 | 18,499 | 19,515 | 39,908  | 42,169  | 30·5                       | 30·9 |
| 1- 2 years ... ..      | 10,327           | 11,743 | 10,486 | 10,300 | 20,813  | 23,485  | 15·9                       | 17·2 |
| 2- 3 „ ... ..          | 5,102            | 8,807  | 5,257  | 7,804  | 10,359  | 17,603  | 7·9                        | 12·9 |
| 3- 4 „ ... ..          | 2,152            |        | 2,042  |        | 4,194   |         | 3·2                        |      |
| 4- 5 „ ... ..          | 1,112            | 2,077  | 1,023  | 1,657  | 2,135   | 3,949   | 1·6                        | 2·9  |
| 5-10 „ ... ..          | 2,105            |        | 1,824  |        | 3,929   |         | 3·0                        |      |
| 10-15 „ ... ..         | 1,355            | 1,241  | 928    | 914    | 2,283   | 2,183   | 1·7                        | 1·6  |
| 15-20 „ ... ..         | 1,128            | 2,499  | 868    | 1,859  | 1,996   | 4,405   | 1·5                        | 3·2  |
| 20-25 „ ... ..         | 1,345            |        | 973    |        | 2,318   |         | 1·8                        |      |
| 25-30 „ ... ..         | 1,597            | 3,103  | 1,262  | 2,489  | 2,859   | 5,741   | 2·2                        | 4·2  |
| 30-35 „ ... ..         | 1,619            |        | 1,282  |        | 2,901   |         | 2·2                        |      |
| 35-40 „ ... ..         | 1,805            | 3,351  | 1,148  | 2,189  | 2,953   | 5,617   | 2·3                        | 4·1  |
| 40-45 „ ... ..         | 1,673            |        | 1,172  |        | 2,845   |         | 2·2                        |      |
| 45-50 „ ... ..         | 1,495            | 3,469  | 771    | 1,920  | 2,266   | 5,574   | 1·7                        | 4·1  |
| 50-55 „ ... ..         | 2,129            |        | 1,260  |        | 3,389   |         | 2·6                        |      |
| 55-60 „ ... ..         | 1,185            | 3,417  | 613    | 2,120  | 1,798   | 5,672   | 1·4                        | 4·2  |
| 60-65 „ ... ..         | 2,344            |        | 1,619  |        | 3,963   |         | 3·0                        |      |
| 65-70 „ ... ..         | 1,256            | 3,558  | 762    | 2,822  | 2,018   | 6,437   | 1·5                        | 4·7  |
| 70-75 „ ... ..         | 2,522            |        | 2,138  |        | 4,660   |         | 3·6                        |      |
| 75-80 „ ... ..         | 962              | 2,964  | 853    | 3,169  | 1,815   | 6,447   | 1·4                        | 4·7  |
| 80-85 „ ... ..         | 2,095            |        | 2,523  |        | 4,618   |         | 3·5                        |      |
| 85-90 „ ... ..         | 474              | 1,927  | 571    | 2,571  | 1,045   | 4,759   | 0·8                        | 3·5  |
| 90-95 „ ... ..         | 1,402            |        | 2,108  |        | 3,510   |         | 2·7                        |      |
| 95 and upwards ... ..  | 803              | 868    | 1,454  | 1,429  | 2,257   | 2,392   | 1·7                        | 1·8  |
| Unknown ... ..         | 27               | 46     | 4      | 4      | 31      | 57      | 0·0                        | 0·0  |
| TOTAL ... ..           | 69,423           | 71,357 | 61,440 | 60,762 | 130,863 | 136,490 | 100                        | 100  |

TABLE NO 10. .—SHOWING DISEASE DISTRIBUTION OF INFANTILE MORTALITY  
IN LOCALITIES HAVING PUBLIC HEALTH OFFICES DURING 1935.

| Disease                                   | Number of Deaths | Rate per 1000 to Total Births | Rate per 1000 to Total Infantile Mortality |
|-------------------------------------------|------------------|-------------------------------|--------------------------------------------|
| Measles ... ..                            | 148              | 0·8                           | 3·7                                        |
| Whooping cough ... ..                     | 26               | 0·1                           | 0·7                                        |
| Diphtheria ... ..                         | 39               | 0·2                           | 1·0                                        |
| Tuberculous diseases ... ..               | 5                | 0·0                           | 0·1                                        |
| Syphilis ... ..                           | 213              | 1·1                           | 5·3                                        |
| Rickets and osteomalacia ... ..           | 312              | 1·6                           | 7·8                                        |
| Convulsions ... ..                        | 126              | 0·6                           | 3·2                                        |
| Bronchitis ... ..                         | 2,376            | 12·1                          | 59·5                                       |
| Broncho-pneumonia ... ..                  | 1,975            | 10·0                          | 49·5                                       |
| Pneumonia... ..                           | 1,059            | 5·4                           | 26·5                                       |
| Diarrhoea and enteritis ... ..            | 20,815           | 105·7                         | 521·5                                      |
| Congenital defects of conformation ... .. | 56               | 0·3                           | 1·4                                        |
| Congenital debility ... ..                | 11,019           | 56·0                          | 276·1                                      |
| Premature birth ... ..                    | 162              | 0·8                           | 4·1                                        |
| Consequences of delivery ... ..           | 27               | 0·1                           | 0·7                                        |
| Infanticide ... ..                        | 199              | 1·0                           | 5·0                                        |
| Accidents ... ..                          | 72               | 0·4                           | 1·8                                        |
| Other causes ... ..                       | 1,280            | 6·5                           | 32·1                                       |
| <b>TOTAL ... ..</b>                       | <b>39,909</b>    | <b>202·7</b>                  | <b>1000</b>                                |

TABLE NO. 11.—SHOWING THE AGE AND SEX DISTRIBUTION OF INFANTILE MORTALITY IN LOCALITIES  
HAVING A HEALTH OFFICE DURING 1935.

| Age                    | Male          | Female        | Total         | Death-rate per 100 births | Death-rate per 100 deaths |
|------------------------|---------------|---------------|---------------|---------------------------|---------------------------|
| 0- 1 month ... ..      | 4,397         | 3,152         | 7,549         | 3·9                       | 5·8                       |
| 1- 2 „ ... ..          | 1,407         | 1,196         | 2,603         | 1·3                       | 2·0                       |
| 2- 3 „ ... ..          | 1,398         | 1,229         | 2,627         | 1·3                       | 2·0                       |
| <b>0- 3 „ ... ..</b>   | <b>7,202</b>  | <b>5,577</b>  | <b>12,779</b> | <b>6·5</b>                | <b>9·8</b>                |
| 3- 4 „ ... ..          | 1,483         | 1,336         | 2,819         | 1·4                       | 2·2                       |
| 4- 5 „ ... ..          | 1,706         | 1,512         | 3,218         | 1·7                       | 2·5                       |
| 5- 6 „ ... ..          | 1,666         | 1,524         | 3,190         | 1·6                       | 2·4                       |
| <b>3- 6 „ ... ..</b>   | <b>4,855</b>  | <b>4,372</b>  | <b>9,227</b>  | <b>4·7</b>                | <b>7·1</b>                |
| 6- 7 „ ... ..          | 2,060         | 1,897         | 3,957         | 2·0                       | 3·0                       |
| 7- 8 „ ... ..          | 1,661         | 1,495         | 3,156         | 1·6                       | 2·4                       |
| 8- 9 „ ... ..          | 2,033         | 1,872         | 3,905         | 2·0                       | 3·0                       |
| <b>6- 9 „ ... ..</b>   | <b>5,754</b>  | <b>5,264</b>  | <b>11,018</b> | <b>5·6</b>                | <b>8·4</b>                |
| 9-10 „ ... ..          | 1,470         | 1,352         | 2,822         | 1·4                       | 2·2                       |
| 10-11 „ ... ..         | 1,408         | 1,281         | 2,689         | 1·4                       | 2·1                       |
| 11-12 „ ... ..         | 721           | 653           | 1,374         | 0·7                       | 1·0                       |
| <b>9-12 „ ... ..</b>   | <b>3,599</b>  | <b>3,286</b>  | <b>6,885</b>  | <b>3·5</b>                | <b>5·3</b>                |
| <b>GRAND TOTAL ...</b> | <b>21,410</b> | <b>18,499</b> | <b>39,909</b> | <b>20·3</b>               | <b>30·5</b>               |

TABLE No. 12-BIRTHS AND DEATHS RETURN FOR GOVERNORATES AND CHIEF TOWNS OF PROVINCES FOR 1935.

| Governorates and Chief Towns of Provinces |     | Estimated<br>Population<br>Mid-1935 | Births    |            |       | Deaths                         |           |            | Infantile Mortality |                                | Percentage of Infantile<br>Mortality |           |                |        |
|-------------------------------------------|-----|-------------------------------------|-----------|------------|-------|--------------------------------|-----------|------------|---------------------|--------------------------------|--------------------------------------|-----------|----------------|--------|
|                                           |     |                                     | Egyptians | Foreigners | Total | Rate per<br>1000<br>Population | Egyptians | Foreigners | Total               | Rate per<br>1000<br>Population | Under<br>one Year                    | 1-9 Years | Under one Year |        |
|                                           |     |                                     |           |            |       |                                |           |            |                     |                                |                                      |           | Births         | Deaths |
| GOVERNORATES :                            |     |                                     |           |            |       |                                |           |            |                     |                                |                                      |           |                |        |
| Cairo ...                                 | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Alexandria                                | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Ismailia (Town)                           | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Port Said ...                             | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Damietta ...                              | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Suez (Town)                               | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| LOWER EGYPT :                             |     |                                     |           |            |       |                                |           |            |                     |                                |                                      |           |                |        |
| Benha ...                                 | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Damanhour                                 | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Mansoura ...                              | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Shebin el-Kom                             | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Tanta ...                                 | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Zagazig ...                               | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| UPPER EGYPT :                             |     |                                     |           |            |       |                                |           |            |                     |                                |                                      |           |                |        |
| Asyût ...                                 | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Aswân...                                  | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Beni-Suef                                 | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Fayoum                                    | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Giza ...                                  | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Minia                                     | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Kena ...                                  | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| Sohag                                     | ... | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |
| TOTAL                                     |     | ...                                 | ...       | ...        | ...   | ...                            | ...       | ...        | ...                 | ...                            | ...                                  | ...       | ...            | ...    |

TABLE No.13 .--BIRTHS AND DEATHS RETURN FOR EGYPT, 1935.

| Governorates and Provinces   |     | Estimated<br>Population<br>Mid-1935. | Births    |            |         | Deaths                      |           |            | Infantile Mortality |                             |         |       |
|------------------------------|-----|--------------------------------------|-----------|------------|---------|-----------------------------|-----------|------------|---------------------|-----------------------------|---------|-------|
|                              |     |                                      | Egyptians | Foreigners | Total   | Rate per 1000<br>Population | Egyptians | Foreigners | Total               | Rate per 1000<br>Population |         |       |
|                              |     |                                      |           |            |         |                             |           |            |                     |                             |         |       |
| GOVERNORATES :               |     |                                      |           |            |         |                             |           |            |                     |                             |         |       |
| Cairo                        | ... | 1,311,200                            | 51,879    | 743        | 52,622  | 40.1                        | 31,199    | 607        | 31,806              | 24.3                        | 10,022  | 190.5 |
| Alexandria                   | ... | 699,400                              | 25,221    | 1,265      | 26,486  | 37.9                        | 16,550    | 929        | 17,479              | 25.0                        | 5,695   | 215.0 |
| Ismaïlia (including suburbs) | ... | 61,000                               | 2,307     | 90         | 2,397   | 39.3                        | 1,316     | 90         | 1,406               | 23.0                        | 414     | 172.7 |
| Port Said ( " )              | ... | 127,200                              | 4,499     | 141        | 4,640   | 36.5                        | 2,251     | 126        | 2,377               | 13.7                        | 763     | 164.4 |
| Suez ( " )                   | ... | 47,200                               | 2,183     | 74         | 2,257   | 47.8                        | 1,342     | 46         | 1,388               | 29.4                        | 542     | 240.1 |
| Damietta                     | ... | 39,300                               | 1,656     | 2          | 1,658   | 42.2                        | 834       | —          | 834                 | 21.2                        | 223     | 134.5 |
| Sinai                        | ... | 17,700                               | 625       | —          | 625     | 35.3                        | 279       | —          | 279                 | 15.8                        | 92      | 147.2 |
| Southern Desert              | ... | 30,200                               | 1,332     | —          | 1,332   | 44.1                        | 1,004     | —          | 1,004               | 33.2                        | 313     | 235.0 |
| Western Desert               | ... | 57,700                               | 2,140     | 84         | 2,224   | 38.5                        | 1,662     | 24         | 1,686               | 29.2                        | 298     | 134.0 |
| Red Sea District             | ... | 6,000                                | 211       | 3          | 214     | 35.7                        | 112       | —          | 112                 | 18.7                        | 49      | 229.0 |
| TOTAL                        |     |                                      | 92,053    | 2,402      | 94,455  | 39.4                        | 56,549    | 1,822      | 58,371              | 24.4                        | 18,411  | 149.9 |
| LOWER EGYPT PROVINCES :      |     |                                      |           |            |         |                             |           |            |                     |                             |         |       |
| Behera...                    | ... | 1,113,100                            | 35,922    | 19         | 35,941  | 32.3                        | 25,166    | 6          | 25,172              | 22.6                        | 4,416   | 122.9 |
| Dakahlia                     | ... | 1,255,100                            | 52,071    | 14         | 52,085  | 41.5                        | 33,975    | 19         | 33,994              | 27.1                        | 8,170   | 156.9 |
| Gharbia                      | ... | 2,010,800                            | 76,634    | 24         | 76,658  | 38.1                        | 53,278    | 28         | 53,306              | 26.5                        | 11,232  | 146.5 |
| Menoufia...                  | ... | 1,244,500                            | 48,944    | 4          | 48,948  | 39.3                        | 34,509    | —          | 34,509              | 27.7                        | 8,543   | 174.5 |
| Kalubia                      | ... | 712,300                              | 26,290    | 4          | 26,294  | 36.9                        | 17,702    | 6          | 17,708              | 24.9                        | 4,076   | 155.0 |
| Sharqia                      | ... | 1,135,100                            | 44,970    | 9          | 44,979  | 39.6                        | 29,334    | 17         | 29,351              | 25.9                        | 6,151   | 136.8 |
| TOTAL                        |     |                                      | 284,831   | 74         | 284,905 | 38.1                        | 193,964   | 76         | 194,040             | 26.0                        | 42,588  | 194.9 |
| UPPER EGYPT PROVINCES :      |     |                                      |           |            |         |                             |           |            |                     |                             |         |       |
| Aswân                        | ... | 296,900                              | 11,604    | 4          | 11,608  | 39.1                        | 7,644     | 9          | 7,653               | 25.8                        | 1,642   | 141.5 |
| Asyût                        | ... | 1,251,100                            | 52,515    | 8          | 52,523  | 42.0                        | 31,758    | 7          | 31,765              | 25.4                        | 8,573   | 163.2 |
| Beni-Suef                    | ... | 596,300                              | 23,279    | —          | 23,279  | 39.0                        | 12,315    | 9          | 12,324              | 20.7                        | 3,399   | 146.0 |
| Fayoum                       | ... | 629,700                              | 25,843    | 2          | 25,845  | 41.0                        | 20,373    | 4          | 20,377              | 32.4                        | 5,881   | 227.5 |
| Girga                        | ... | 1,136,400                            | 47,642    | 1          | 47,643  | 41.9                        | 26,018    | 3          | 26,021              | 22.9                        | 6,095   | 127.9 |
| Giza                         | ... | 620,400                              | 31,006    | 23         | 31,029  | 50.0                        | 18,998    | 20         | 19,018              | 30.7                        | 5,610   | 180.8 |
| Minia                        | ... | 954,000                              | 37,765    | 8          | 37,773  | 39.6                        | 24,343    | 15         | 24,358              | 25.5                        | 7,120   | 188.5 |
| Kena                         | ... | 1,048,800                            | 36,697    | 3          | 36,700  | 35.0                        | 18,268    | 2          | 18,270              | 17.4                        | 4,410   | 120.2 |
| TOTAL                        |     |                                      | 266,351   | 49         | 266,400 | 40.8                        | 159,717   | 69         | 159,786             | 24.5                        | 42,730  | 160.4 |
| GRAND TOTAL                  |     |                                      | 643,235   | 2,525      | 645,760 | 39.4                        | 410,230   | 1,967      | 412,197             | 25.1                        | 103,729 | 160.6 |

TABLE No. 14.—SHOWING THE HIGHEST AND LOWEST BIRTH AND DEATH RATES DURING 1935  
IN GOVERNORATES, PROVINCES AND TOWNS HAVING A HEALTH OFFICE.

|                                                                            | Govte., Prov. or Town<br>having a Health Office | Rate per<br>Thousand |
|----------------------------------------------------------------------------|-------------------------------------------------|----------------------|
| <i>Births :</i>                                                            |                                                 |                      |
| Governorate or province with highest birth-rate ... ..                     | Giza                                            | 50·0                 |
| "    "    "    "    lowest    "    ... ..                                  | Behera                                          | 32·3                 |
| Town or <i>bandar</i> (chief town) with highest birth-rate ... ..          | Shubra el-Kheima                                | 78·7                 |
| "    "    "    "    "    "    lowest    "    ... ..                        | Port Fouad                                      | 14·2                 |
| <i>Deaths :</i>                                                            |                                                 |                      |
| Governorate or province with highest death-rate ... ..                     | Southern Desert Govte.                          | 33·2                 |
| "    "    "    "    lowest    "    ... ..                                  | Sinai Govte.                                    | 15·8                 |
| Town or <i>bandar</i> (chief town) with highest death-rate... ..           | Kom Hamada                                      | 54·7                 |
| "    "    "    "    "    "    lowest    "    ... ..                        | Port Fouad                                      | 4·7                  |
| <i>Infantile Mortality :</i>                                               |                                                 |                      |
| Governorate or province with highest infantile mortality ... ..            | Suez                                            | 240·1                |
| "    "    "    "    lowest    "    "    ... ..                             | Kena                                            | 120·2                |
| Town or <i>bandar</i> (chief town) with highest infantile mortality ... .. | El-Adwa                                         | 390·1                |
| "    "    "    "    "    "    lowest    "    "    ... ..                   | El-Allaki                                       | 20·0                 |

. The birth-rate for all the population of Egypt was 39·4 per thousand.

## CHAPTER II.

### GENERAL SANITATION

#### 1.—Unhealthy, Inconvenient and Dangerous Establishments

##### (a) *Applications for New Permits.*

The number of applications for new permits for establishments of the 1st class during the year 1935 was 209 ; as compared with 308 and 322 in 1934 and 1933 respectively.

The number of applications submitted during the year 1935 for new permits for General and Cattle Markets was 34 ; as compared with 41 and 32 in 1934 and 1933 respectively.

The decrease in applications submitted for permits during 1935 is attributed to the fact that the procedure of facilitating issue of *Rokhsas* has also been adopted in Beheira and Menoufia provinces and Damietta Governorate since May 1, 1935. These applications are being dealt with by the Committee delegated for this purpose.

The above mentioned number of applications does not include applications submitted for *Rokhsas* in the following provinces, where the applications are dealt with by the committee constituted at the Ministry of the Interior:—

- |                         |                      |
|-------------------------|----------------------|
| 1. Dakahlia Province    |                      |
| 2. Gharbia Province     |                      |
| 3. Beheira Province     | } since May 1, 1935. |
| 4. Menoufia Province    |                      |
| 5. Damietta Governorate |                      |

The Ministry of the Interior was of opinion that the procedure introduced in Gharbia and Dakahlia provinces for facilitating issue of *Rokhsas* should also be adopted in Beheira, Menoufia and Damietta. The proposal was approved by the Department of Public Health and actually begun as from May 1, 1935.

The experiment for facilitating procedure of issuing new permits for 2nd class establishments is still adopted in Gharbia province on the same principles previously laid down.

##### (b) *Licensed Establishments actually working.*

Table No. 16 shows number of unhealthy establishments of the three classes licensed in each Mudirieh and Governorate during the year 1935.

The total number of these establishments (excluding establishments in Alexandria) was 68,745 ; as compared with 69,410 in 1934.

##### (c) *Ministerial Arrêtés issued for the improvement of the Sanitary Conditions of Establishments.*

The Department continued issuing Ministerial Arrêtés imposing new conditions for improving the sanitary condition of old licensed establishments.

The number of Ministerial Arrêtés issued in 1935 (including Alexandria Governorate) was 143 ; as compared with 339 in 1934 and 322 in 1933.

Table No. 17 shows number of Ministerial Arrêtés issued for the unhealthy establishments in each Mudiria and Governorate.

The employment of machines for extracting oil from sesame instead of using the feet is about to prevail in all oil factories where sesame seeds are used in the manufacture.

The Department also continued improving the conditions of the Milk Diaries and their products owing to the importance of these manufactures and their direct relation to public health.

The Department, also, spares no effort to maintain in a good sanitary condition all other factories, where many labourers are employed, so as to ensure the labourers' comfort and to safe-guard their health.

A Ministerial Arrêté was issued for the transfer of incubators from Category "B" of the 2nd class in the Schedule to Category "A", thus putting them under sanitary control in all towns whether or not the Law No. 13 of 1904 is in force, with a view to improving the condition of this sort of establishments. A Ministerial Arrêté was also issued for amending the title "Markets for vegetables and fruits" in the Schedule to read "Wholesale and retail markets and depots for vegetables and fruits" so that they could be put under sanitary control.

(d) *Sanitary Overseers.*

20 candidates have succeeded in the examination of the Sanitary Institute in the 1st and 2nd sessions.

They have been appointed in the vacant posts sanctioned in the budget.

Table No. 18 shows number of overseers in each Mudiria and Governorate.

(e) *Slaughter-Houses and Slaughtering Sites.*

During the year 1935, the Department approved the sites of 3 new slaughter-houses, to be created at the expense of the municipalities, local commissions or village councils of the following towns:—

1. Samannoud, Gharbia Province.
2. Beni Ahmed, Minia Province.
3. Sanabou, Asyût Province.

The Department has also approved a slaughtering site in Zarakan village, Tala Markaz, where no slaughter houses existed; nor there being any nearby.

(f) *Committee for considering the Circumscription of Slaughter-houses.*

This Committee investigated the applications received for the incorporation of some villages into the bounds of neighbouring slaughter-houses.

Before approving this incorporation, the Committee stipulated: the good condition of the roads, the proximity of the village to the slaughter-house, and the means of transport available at the Council to which the slaughter-house belongs.

Ministerial arrêtés regarding villages incorporated into the circumscription of slaughter-houses have been published in the Official Journal as usual.

(g) *Contraventions of Unhealthy Establishments.*

The number of Procès-Verbeaux of contraventions drawn up during the year against establishments exploited without licences as well as establishments lacking Sanitary Conditions in all Egypt, except Cairo and Alexandria, was 11,532. They are shown in table No. 15:

TABLE No, 15,

| Mudiria or Governorate | Procès-Verbeaux of<br>Contraventions for<br>Establishments<br>exploited without<br>licences | Procès-Verbeaux of<br>Contraventions for<br>Establishments<br>lacking Sanitary<br>Conditions |
|------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Canal ... ..           | 191                                                                                         | 285                                                                                          |
| Suez ... ..            | 89                                                                                          | 78                                                                                           |
| Damietta ... ..        | 74                                                                                          | 70                                                                                           |
| Dakahlia ... ..        | 640                                                                                         | 480                                                                                          |
| Sharkia ... ..         | 350                                                                                         | 403                                                                                          |
| Kalioubia ... ..       | 372                                                                                         | 389                                                                                          |
| Gharbia ... ..         | 670                                                                                         | 828                                                                                          |
| Behera... ..           | 628                                                                                         | 307                                                                                          |
| Menoufia ... ..        | 293                                                                                         | 330                                                                                          |
| Guizeh... ..           | 531                                                                                         | 332                                                                                          |
| Fayoum ... ..          | 260                                                                                         | 303                                                                                          |
| Beni-Suef ... ..       | 308                                                                                         | 197                                                                                          |
| Minia ... ..           | 783                                                                                         | 218                                                                                          |
| Asyût ... ..           | 333                                                                                         | 302                                                                                          |
| Girga ... ..           | 493                                                                                         |                                                                                              |
| Kena ... ..            | 547                                                                                         | 259                                                                                          |
| Aswân ... ..           | 158                                                                                         | 31                                                                                           |

TABLE NO. 16.—SHOWING NUMBER OF UNHEALTHY ESTABLISHMENTS LICENSED AND ACTUALLY WORKING IN EGYPT DURING THE YEAR 1935.

| Governorate or Mudiria | 1st Class Establishments | 2nd Class Establishments |        | 3rd Class Establishments |        | Total  |
|------------------------|--------------------------|--------------------------|--------|--------------------------|--------|--------|
|                        |                          | CAT. A                   | CAT. B | CAT. A                   | CAT. B |        |
| Cairo ... ..           | 1,739                    | 10,243                   | 1,278  | 2,270                    | 638    | 16,168 |
| Canal ... ..           | 322                      | 1,122                    | 67     | 201                      | 109    | 1,821  |
| Suez ... ..            | 84                       | 446                      | 58     | 63                       | 39     | 690    |
| Damietta ... ..        | 210                      | 653                      | 76     | 50                       | 86     | 1,075  |
| Gharbia ... ..         | 694                      | 5,656                    | 415    | 608                      | 143    | 7,516  |
| Behera ... ..          | 281                      | 2,882                    | 171    | 167                      | 124    | 3,625  |
| Dakahlia... ..         | 465                      | 3,444                    | 259    | 352                      | 104    | 4,624  |
| Menoufia... ..         | 101                      | 4,286                    | 226    | 291                      | 38     | 4,942  |
| Sharqia ... ..         | 240                      | 2,938                    | 169    | 196                      | 44     | 3,587  |
| Qaliubia ... ..        | 80                       | 2,224                    | 133    | 224                      | 36     | 2,697  |
| Giza ... ..            | 88                       | 2,709                    | 164    | 333                      | 42     | 3,336  |
| Fayoum ... ..          | 84                       | 2,305                    | 84     | 178                      | 32     | 2,683  |
| Beni Suef ... ..       | 58                       | 1,698                    | 71     | 171                      | 20     | 2,018  |
| Minia ... ..           | 141                      | 3,030                    | 94     | 310                      | 66     | 3,641  |
| Asyût ... ..           | 148                      | 3,677                    | 152    | 470                      | 56     | 4,503  |
| Girga ... ..           | 65                       | 2,115                    | 113    | 219                      | 27     | 2,539  |
| Kena ... ..            | 102                      | 1,997                    | 47     | 201                      | 33     | 2,380  |
| Aswân ... ..           | 51                       | 745                      | 5      | 81                       | 18     | 900    |
| GRAND TOTAL ... ..     | 4,953                    | 52,170                   | 3,582  | 6,385                    | 1,655  | 68,745 |

TABLE NO. 17.—SHOWING NUMBER OF MINISTERIAL ARRÊTÉS ISSUED DURING 1935 FOR THE UNHEALTHY ESTABLISHMENTS IN EACH MUDIRIA AND GOVERNORATE.

| Governorate or Mudiria     | Number of Arrêtés | Governorate or Mudiria     | Number of Arrêtés |
|----------------------------|-------------------|----------------------------|-------------------|
| Alexandria ... ..          | 24                | <i>Brought forward</i> ... | 129               |
| Cairo ... ..               | 40                | Qaliubia ... ..            | 3                 |
| Canal ... ..               | 1                 | Giza ... ..                | —                 |
| Suez ... ..                | —                 | Beni Suef ... ..           | 1                 |
| Damietta ... ..            | 8                 | Fayoum ... ..              | 1                 |
| Gharbia ... ..             | 14                | Minia ... ..               | 2                 |
| Behera ... ..              | 5                 | Asyût ... ..               | 6                 |
| Dakahlia ... ..            | 24                | Girga ... ..               | —                 |
| Menoufia... ..             | 8                 | Kena ... ..                | 1                 |
| Sharqia ... ..             | 5                 | Aswân ... ..               | —                 |
| <i>Carried forward</i> ... | 129               | TOTAL ... ..               | 143               |

TABLE NO. 18.—SHOWING NUMBER OF OVERSEERS IN EACH MUDIRIA AND GOVERNORATE.

| Governorate or Mudiria     | Number of Overseers | Governorate or Mudiria        | Number of Overseers |
|----------------------------|---------------------|-------------------------------|---------------------|
| Cairo ... ..               | 21                  | <i>Brought forward</i> ...    | 84                  |
| Canal ... ..               | 2                   | Giza ... ..                   | 7                   |
| Suez ... ..                | 1                   | Fayoum ... ..                 | 5                   |
| Damietta ... ..            | 1                   | Beni Suef ... ..              | 4                   |
| Gharbia ... ..             | 17                  | Minia ... ..                  | 7                   |
| Behera ... ..              | 11                  | Asyût ... ..                  | 10                  |
| Dakahlia ... ..            | 9                   | Girga ... ..                  | 6                   |
| Menoufia... ..             | 8                   | Kena ... ..                   | 7                   |
| Sharqia ... ..             | 8                   | Aswân ... ..                  | 3                   |
| Qaliubia ... ..            | 6                   | Field Engineering Section ... | 2                   |
| <i>Carried forward</i> ... | 84                  | TOTAL ... ..                  | 135                 |

## 2.—Water

### *Installation of New Water Filtering Plants.*

The following work has been accomplished :

- (1) Enlargement of Tanta Water Works.
- (2) Installation of a new plant at Kafr El Dawar.

### *Artesian Water Installations.*

New Artesian Water Installations were erected at :

- (1) Qaliub.
- (2) Shebin El Kanater.
- (3) Barrage.
- (4) Toukh

The competent authorities spare no effort for the installation of new plants in different localities throughout Egypt in accordance with the health programme laid down for this purpose.

### *Free Water Taps.*

Two free water taps have been installed in Cairo City at the following localities :

- (1) Ezbet El Wabour, Helwan El Balad.
- (2) Ezbet Deir El Tin, Old Cairo Quarter.

This Department is negotiating with the Municipalities Section of the Ministry of the Interior to install free water taps in the many towns provided with public water supplies and where private wells in houses are being filled in, with a view to supplying the inhabitants in poor quarters with filtered water.

### *Measures for the Non Pollution of Drinking Water.*

Arrêtés for the non-pollution of drinking water have been issued for the following localities :

- (1) Shandaweel, Girga Province.
- (2) Abul Matamir, Behera Province.
- (3) Abu Hommos, Behera Province.
- (4) Samannoud, Gharbia Province.
- (5) Dessouk, Gharbia Province.
- (6) Giza, Giza Province.
- (7) Beni Mazar, Minia Province.
- (8) Fashn, Minia Province.
- (9) Fikria, Minia Province.
- (10) El Nekhila, Asyût Province.

## 3.—Food=Stuffs

In order to exercise an effective control of food-stuffs throughout the country, the Department decided, early this year, to increase the number of food inspectors.

Six Sanitary overseers have actually been delegated to perform the work of Food Inspectors at the following localities :—

Shebin El Kom.

Damanhour.

Zagazig.

Beni Suef.

Minia.

Mansoura.

As a result, the number of samples of food sent to the laboratories for chemical analysis greatly increased. Besides, large quantities of food-stuffs found unwholesome during inspection, were condemned on the spot after taking the consent of their owners, without need of examining samples thereof.

On the whole it can safely be stated that the Department is now controlling food articles exposed for sale in establishments and markets in most parts of the country in a satisfactory manner.

It is anticipated that, by next year, Food Inspectors will be appointed to all the provinces. Their work will not only be limited to the inspection of food articles in towns but shall also involve the inspection of these articles in public markets held weekly in all parts of the country.

Table No. 19 shows the number of samples of different food articles sent to the laboratories for analysis.

TABLE NO. 19.— SHOWING SAMPLES OF VARIOUS FOOD-STUFFS EXAMINED BY THE LABORATORIES DURING 1935.

| Kind of Sample                                  | Number of Samples | Percentage of Samples found Fit |
|-------------------------------------------------|-------------------|---------------------------------|
| Natural butter ... ..                           | 1,942             | 77·5                            |
| Artificial butter .. ...                        | 35                | 82·5                            |
| Cocoa-nut oil... ..                             | 9                 | 100                             |
| Cotton-seed oil ... ..                          | 101               | 99                              |
| Olive oil... ..                                 | 155               | 31·5                            |
| Sesame oil ... ..                               | 266               | 94                              |
| Other oils fit for human consumption ... ..     | 32                | 57·5                            |
| Milk... ..                                      | 9,308             | 81·5                            |
| Human milk ... ..                               | 24                | 100                             |
| Condensed and diluted milk ... ..               | 51                | 90                              |
| Bread and biscuits ... ..                       | 47                | 67·5                            |
| Preserved food ... ..                           | 1,242             | 27·5                            |
| Cheese ... ..                                   | 33                | 73·5                            |
| Other articles fit for human consumption ... .. | 348               | 84                              |
| Coffee, tea and cocoa ... ..                    | 1,614             | 90                              |
| Red pepper ... ..                               | 258               | 41                              |
| Flour ... ..                                    | 688               | 88·5                            |
| Aerated water for saccharine or saponine... ..  | 772               | 71·5                            |
| Alcoholic liquors ... ..                        | 18                | 66                              |
| Vinegar ... ..                                  | 258               | 21·5                            |
| Sugar ... ..                                    | 12                | 100                             |
| Colouring matters ... ..                        | 1                 | 100                             |
| TOTAL ... ..                                    | 17,214            |                                 |

TABLE No. 20.—SHOWING THE NUMBER AND QUANTITY OF FOOD-STUFFS CONDEMNED, THE NUMBER OF SAMPLES TAKEN AND THE RESULT OF THEIR EXAMINATION TOGETHER WITH THE NUMBER OF PROCES-VERBEAUX DRAWN UP.

| Article                      | Food Articles Condemned |        |        | Samples taken |         |              |               | Procès Verbeaux |               |
|------------------------------|-------------------------|--------|--------|---------------|---------|--------------|---------------|-----------------|---------------|
|                              | Number                  | Okes   | Derham | Number        | Genuine | Adul-terated | Dete-riorated | Adul-terated    | Dete-riorated |
| <i>Preserved Foods :</i>     |                         |        |        |               |         |              |               |                 |               |
| Sweets ... ..                | 3,832                   | 289    | 190    | 313           | 290     | —            | 23            | —               | 9             |
| Milk and butter ... ..       | 296                     | —      | —      | 36            | 20      | —            | 16            | —               | —             |
| Vegetables and fruits ... .. | 8,132                   | 4,786  | 168    | 296           | 125     | —            | 171           | —               | 1             |
| Meat ... ..                  | 1,232                   | 402    | 200    | 16            | 8       | —            | 8             | —               | —             |
| Fish ... ..                  | 19,145                  | 1,695  | 40     | 2,681         | 1,498   | 115          | 1,068         | 68              | 13            |
| Other oils ... ..            | 4                       | 42     | 72     | 33            | 29      | 4            | —             | 4               | —             |
| Linseed oil ... ..           | —                       | —      | —      | 21            | 16      | 4            | 1             | 4               | 1             |
| Sesame oil ... ..            | —                       | —      | —      | 224           | 193     | 31           | —             | 31              | —             |
| Olive oil ... ..             | 3                       | 240    | 172    | 117           | 34      | 73           | 10            | 71              | 8             |
| Ice ... ..                   | —                       | —      | —      | 32            | 22      | —            | 10            | —               | —             |
| Aerated water ... ..         | 70                      | —      | —      | 509           | 426     | 34           | 49            | 23              | —             |
| Cheese ... ..                | 35                      | 61     | 120    | 34            | 26      | 4            | 4             | 4               | 4             |
| Butter ... ..                | —                       | 12     | —      | 344           | 245     | 85           | 14            | 80              | 12            |
| Artificial butter ... ..     | 2                       | —      | —      | 36            | 25      | 11           | —             | 11              | —             |
| Natural butter ... ..        | 13                      | 16     | 360    | 1,289         | 933     | 313          | 43            | 306             | 36            |
| Milk ... ..                  | 47                      | 6      | 280    | 6,414         | 5,545   | 869          | —             | 811             | —             |
| Pepper ... ..                | —                       | 2      | 72     | 93            | 40      | 52           | 1             | 52              | 1             |
| Rice ... ..                  | —                       | —      | —      | 5             | 3       | 1            | 1             | 1               | —             |
| Coffee ... ..                | 4                       | 20     | 80     | 1,283         | 1,125   | 154          | 4             | 153             | —             |
| Tea ... ..                   | 1                       | 2,780  | 80     | 181           | 176     | 1            | 4             | 1               | —             |
| Vinegar ... ..               | 990                     | 119    | —      | 224           | 48      | 175          | 1             | 175             | —             |
| <i>Other Food-Stuffs :</i>   |                         |        |        |               |         |              |               |                 |               |
| Colouring matters ... ..     | 48                      | 1      | 221    | 402           | 370     | 22           | 10            | 15              | 3             |
| Bread ... ..                 | 3,002                   | 129    | 200    | 44            | 33      | —            | 11            | —               | 3             |
| Flour ... ..                 | 5                       | 5,851  | 200    | 489           | 333     | 145          | 11            | 144             | —             |
| Sweets ... ..                | 2,580                   | 742    | 166    | 645           | 360     | 17           | 268           | 17              | 1             |
| <i>Fresh Foods :</i>         |                         |        |        |               |         |              |               |                 |               |
| Fruits and Vegetables ... .. | 5,005                   | 6,085  | 346    | 152           | 31      | 4            | 17            | —               | 8             |
| Fish ... ..                  | 3,440                   | 1,772  | 276    | 1             | 1       | —            | —             | —               | —             |
| Meat ... ..                  | 279                     | 1,983  | 80     | 8             | 1       | —            | 7             | —               | —             |
| TOTAL ... ..                 | 48,165                  | 27,041 | 123    | 15,822        | 11,956  | 2,114        | 1,752         | 1,971           | 109           |

N.B.—The following table shows the Statistics of Cairo City Health Inspectorate.

ANNEX TO TABLE No. 20.

STATISTICS OF CAIRO City HEALTH INSPECTORATE AND THE GRAND TOTAL.

| Total                                               | Foods Condemned |        |        | Samples taken |         |              |               | Procès-Verbeaux |               |
|-----------------------------------------------------|-----------------|--------|--------|---------------|---------|--------------|---------------|-----------------|---------------|
|                                                     | Number          | Okes   | Derham | Number        | Genuine | Adul-terated | Dete-riorated | Adul-terated    | Dete-riorated |
| Total of the above table ... ..                     | 48,165          | 27,041 | 123    | 15,822        | 11,956  | 2,114        | 1,752         | 1,971           | 100           |
| Statistics of Cairo City Health Inspectorate ... .. | 5,745           | 3,265  | —      | 229           | 47      | 21           | 161           | 21              | 1             |
| GRAND TOTAL ... ..                                  | 53,910          | 30,306 | 123    | 16,051        | 12,003  | 2,135        | 1,913         | 1,992           | 101           |

#### 4.—Fencing Waste Lands

The existence of waste lands amidst habitations in towns tempts their use as dumps for waste water, refuse and filth which constitute serious danger to the health of neighbours whether from bad odours emanating therefrom, or flies breeding therein. The Department therefore takes every measure to fence such lands by applying the Ministerial Arrêté dated January 15, 1893 so that the inhabitants cannot penetrate through.

The Department also endeavours to enforce the provisions of this Arrêté in towns where it has not yet been applied.

During this year, Arrêtés have been issued for the application of this Arrêté to :—

- (1) Sheblanga, Qualiubia Province.
- (2) Shandaweel, Girga Province.

#### 5.—Cleanliness of Streets

The Department, meanwhile, pays great attention to the cleanliness of streets and roads in towns and cities having Local Commissions or Village Councils, thus helping these authorities to attain their object by prohibiting the dumping of refuse and waste water in streets.

For this purpose, Arrêtés were issued by Sharkia Province, for the application of the Arrêté dated June 7, 1913, concerning the cleanliness of streets, to Facous and Ibrahimia; and by the Canal Governorate, for the application of the Arrêté to Ismailia, in as far as the non-taking of street refuse is concerned. Gharbia Province has also issued an Arrêté applying the said Arrêté to some streets in Tanta.

#### 6.—Vidange Regulations

The Vidange Regulations issued on November 8, 1886, were applied to :—

- (1) Mallawi Bandar, Assyût Province.
- (2) Samallout, Minia Province.

#### SELECTION OF DEPOTOIRS

It is evident that the application of regulations concerning cleanliness of streets, fencing of waste lands and Vidange and the increase of buildings necessitate the selection of sites for the disposal of sewage and street refuse.

A site has been selected at Ismailia for this purpose. Steps are being taken for the selection of other similar sites at different towns.

#### 7.—Mosques

It was noticed that many of the ablutionary systems in mosques, both in towns and villages, were insanitary, thus constituting serious danger to public health.

A campaign for the inspection of all ablutionary systems of mosques all over Egypt was arranged and measures taken for their repair, in order to remove any danger to public health resulting therefrom. All ablutionary systems of mosques considered to constitute a serious menace to public health were instantly closed. Notifications were served to their owners as well as owners of other less dangerous mosques to have the systems repaired within a certain delay.

Numerous objections are raised by the inhabitants to closing such ablutionary systems as being an impediment to the observance of religious rites. It is worthy of mention here that the closure of an ablutionary system does not interfere in any way with the mosque itself. The Department, being concerned with the improvement of the sanitary condition in villages, takes special interest in the repair of these ablutionary systems which are, in fact, used by the inhabitants as latrines.

It was also noticed that many of the owners of these mosques cannot afford the cost of repairs required for them. Some mosques are, therefore, annually selected in every province to have their ablutionary systems repaired from the special credits reserved in the Provincial Councils' budgets for sanitation work.

The Department also inspects the mosques belonging to the Ministry of Wakfs and communicates the repairs required for them to that Ministry for execution.

The following is a statement of the mosques dealt with throughout the country during 1935.

#### PRIVATE MOSQUES

|                                                   |     |
|---------------------------------------------------|-----|
| Number opened after repairs ... ..                | 56  |
| Number closed for want of repairs... ..           | 124 |
| Number under repair ... ..                        | 957 |
| Plans of new private mosques duly approved ... .. | 10  |

#### MOSQUES BELONGING TO MINISTRY OF WAKFS

|                                                                                       |    |
|---------------------------------------------------------------------------------------|----|
| Number of ablutionary systems the preliminary estimates of which were approved ... .. | 23 |
| Number of ablutionary systems under repair ... ..                                     | 32 |
| Number of ablutionary systems closed for want of repair ... ..                        | 3  |
| Number of ablutionary systems repaired ... ..                                         | 24 |

### 8.—Birkas

The Department paid special attention, during the year 1935, to the question of birkas existing throughout the country.

#### *Birkas inspected.*

|                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------|-----|
| Birkas belonging to individuals ... ..                                                                    | 195 |
| Birkas belonging to Government ... ..                                                                     | 65  |
| Birkas filled in according to birka law ... ..                                                            | 14  |
| Birkas sold by the State Domains Administration to inhabitants under condition of their being filled in*. |     |
| Birkas filled by the General Committee, Ministry of the Interior (area 745,251 sq. metres) ... ..         | 32  |

As regards private birkas, the birka law was applied to them as usual.

Birkas lying on both sides of the Pyramids Avenue received great attention by the Department in view of the increase of habitations on this avenue. Almost all the birkas lying on its sides are now filled in,

Birkas lying in vicinity of this avenue also received the same attention.

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\* Amounting to 6 feddâns, 15 kirats and 9 sahms.

### 9.—Cemeteries

The following is a statistical table giving a summary of the work accomplished during the year 1935 with regard to cemeteries in Egypt :—

TABLE No. 21.

|                                                        | Year 1934 | Year 1935 |
|--------------------------------------------------------|-----------|-----------|
| I.                                                     |           |           |
| New Cemeteries ... ..                                  | 13        | 11        |
| Cemeteries extended ... ..                             | 9         | 12        |
| „ limited with pillars ...                             | 228       | 133       |
| „ authorized for burial ...                            | 27        | 41        |
| II.                                                    |           |           |
| Private tombs authorised ... ..                        | 8         | 9         |
| III.                                                   |           |           |
| Cemeteries, to be disaffected :                        |           |           |
| (a) Cemeteries from which bones<br>duly removed ... .. | 76        | 68        |
| (b) Under removal ... ..                               | 356       | 215       |
| IV.                                                    |           |           |
| Encroachments ... ..                                   | 202       | 287       |

#### DETAILS

##### (1) *Construction, Extension, Limitation and Approval of Cemeteries.*

Before the year 1896, the Department of Public Health had no sanitary control over the construction of cemeteries. The inhabitants used to assign the places for burial of their own accord ; larger families, in towns or villages, went so far as to assign cemeteries for the special burial of their dead.

It was in 1896, when the sanitary measures were first laid down and laws and regulations issued for their application, that the Department of Public Health put all cemeteries throughout the country under control. Those which were found suitable for burial were gradually repaired, others which lacked sanitary conditions were either abolished and new ones erected or altered in such a way as to keep them distant from habitation ; thus eliminating the danger arising from their existence near habitations or near water channels.

The number of cemeteries constructed or enlarged during the year 1935 would appear small with regard to the needs of the country ; but this is attributed to the prolonged procedure taken towards the inspection and selection of sites and the measures adopted for procuring the land either by donation, purchase or expropriation and the issue of decrees designating them for public utility.

On the other hand, the number of cemeteries discovered by the Survey Department during survey work and annually brought to the notice of this Department for authorization is so great that it signifies that there are many cemeteries constructed throughout the country without the knowledge of the Department of Public Health.

#### PRIVATE TOMBS

In past times and before the places of burial were put under the actual control of the Department, many private tombs were built without the knowledge of the Department. At present this kind of tombs is only permitted after careful examination. Permission for private tombs is only given to such families whose members have distinguished themselves. The number of authorised private tombs is shown in the Statistical table No. 21.

### DISAFFECTED CEMETERIES

In view of the great number of insanitary cemeteries in existence, and the fact that most of them are either abandoned for being filled with the dead or situated near habitations or surrounded thereby and not limited but about to disappear, which make them liable for encroachment; the Department decided to disaffect a large number of them with a view to handing them over to the State Domains, after evacuation of bones, for being utilised as public parks or roads.

In spite of the difficulties encountered by the Department towards their evacuation of the bones, which was left to the discretion of the inhabitants who on their part refused to do so; the Department was able to persuade the ignorant inhabitants of the benefits they would gain from the removal of these cemeteries from amidst their homes.

Thus, during late years, it was possible to hand over to the State Domains many disused cemeteries after removal of the bones. The necessary measures are being taken to hand over some more cemeteries to the State Domains for their utilisation either by renting, selling or any other way which may increase the revenues of the country.

### ENCROACHMENTS

Encroachments on cemeteries are almost attributed to their construction without proper boundaries or their abandonment for long periods or disappearance of their marks. Statistics revealed that most encroachments were committed on disused or unlimited cemeteries. The Department made every effort to put a stop to such encroachments. Provinces and Governorates were requested to punish Omdahs and Sheikhs who neglected in guarding the cemeteries while delicts and contraventions were drawn up against offenders, many of whom were punished by fines and removal. In the meantime the Survey Department was requested to make a survey of all the cemeteries throughout the country with the result that encroachments are now decreasing. Most of the encroachments committed now are in the form of dumping refuse and rubbish on cemeteries which are found close to habitations, by persons who do not realise the sanctity of such places.

## 10.—Propaganda Section

Considerable progress has been made in the work done by this Section during the year 1935 as far as urban and rural propagandas are concerned.

In order to spread the valuable services of rural propaganda, the Department bought a new car in addition to the other two already in existence, thus there are now three well equipped cars for this purpose.

Shows and ceremonies were held for health propaganda in some of the big towns and in the various scientific institutions, clubs and public meetings.

Beside the propaganda carried out on special occasions such as *Muleds*, public meetings, etc., the Department has carried out an active rural propaganda in some of the *Mudirias*.

One of the most prominent propaganda events during the year was that carried out in the Dakhla and Kharga Oases. Sanitary films were shown and lectures given to the inhabitants with very satisfactory results.

### DISTRIBUTION OF PAMPHLETS

The distribution of pamphlets was done on the same lines as in previous years. The number of each pamphlet distributed is shown in table No. 24.

### POSTERS

These posters have been modified and reprinted to pace with the progress of the country achieved during late years.

### HEALTH FILMS

The Department bought some new films which were found suitable for Egypt. There are now 55 films in stock. In the interest of the public, Arabic translations were made for each film and printed thereon.

# BROADCASTING LECTURES ON HEALTH

Monthly lectures were broadcasted from the Egyptian Radio Station by a delegate from the Propaganda Section. The time allotted for each lecture was 20 minutes. Care is taken that these lectures meet the circumstances on which they are given.

TABLE No. 22 SHOWING NUMBER OF PROPAGANDA MEETINGS HELD IN TOWNS WHERE AN ELECTRIC CURRENT IS AVAILABLE, DURING THE YEAR 1935.

| Town              | Number of Meetings |
|-------------------|--------------------|
| Cairo ... ..      | 45                 |
| Alexandria ... .. | 6                  |
| Tanta ... ..      | 10                 |
| Minia ... ..      | 1                  |
| Asyût ... ..      | 2                  |
| TOTAL ... ..      | 64                 |

TABLE No.23 SHOWING RURAL WORK ACCOMPLISHED BY THE PROPAGANDA CARS DURING THE YEAR 1935

| Mudiria                          | Number of Villages | Number of districts | Number of Meetings |
|----------------------------------|--------------------|---------------------|--------------------|
| Gharbia ... ..                   | 30                 | 10                  | 56                 |
| Behera... ..                     | 3                  | 3                   | 12                 |
| Sharkia ... ..                   | 2                  | 2                   | 8                  |
| Menoufia ... ..                  | 31                 | 5                   | 40                 |
| Beni Suef ... ..                 | 17                 | 4                   | 21                 |
| Fayoum ... ..                    | 22                 | 4                   | 25                 |
| Oases (Kharga and Dakhla) ... .. | 25                 | 2                   | 40                 |
| Total ... ..                     | 130                | 30                  | 202                |

TABLE No. 24 SHOWING THE NUMBER OF PAMPHLETS DISTRIBUTED DURING THE YEAR 1935.

| Form No. | Title of Pamphlet                                                | Number distributed |
|----------|------------------------------------------------------------------|--------------------|
| Prop.    |                                                                  |                    |
| 1        | Danger of Flies ... ..                                           | 16,500             |
| 2        | Mosquitoes ... ..                                                | 8,412              |
| 3        | Tuberculosis ... ..                                              | 10,000             |
| 4        | Advice for Tuberculosis Patients ... ..                          | 2,400              |
| 5        | Essay on the Mischief of Rats ... ..                             | 125                |
| 6        | Rats ... ..                                                      | 6,980              |
| 7        | Lice ..... ..                                                    | 5,280              |
| 8        | Fleas ... ..                                                     | 4,850              |
| 9        | Measles ... ..                                                   | 6,880              |
| 10       | Diphtheria ... ..                                                | 3,300              |
| 11       | Typhoid Fever ... ..                                             | 6,880              |
| 12       | Advice on the Care of the Eye ... ..                             | 18,383             |
| 13       | Gonorrhea ... ..                                                 | 4,450              |
| 14       | Narcotics ... ..                                                 | 3,500              |
| 15       | Bilharzia ... ..                                                 | 24,330             |
| 16       | Ankylostoma ... ..                                               | 25,800             |
| 17       | Advice for Gonorrhea Patients ... ..                             | 4,300              |
| 18       | Notice for Ankylostoma Patients ... ..                           | 2,226              |
| 19       | Influenza ... ..                                                 | 13,040             |
| 20       | Fatwa Prohibiting Urination in Water Channels... ..              | 3,110              |
| 21       | Advice for Ankylostoma Patients ... ..                           | 16,350             |
| 22       | Plague ... ..                                                    | 2,710              |
| 23       | Venereal Diseases ... ..                                         | 1,800              |
| 24       | Narcotics ... ..                                                 | 1,970              |
| 25       | Advice for Persons intending to Marry ... ..                     | 1,900              |
| 26       | Advice for Pregnant Women ... ..                                 | 1,820              |
| 27       | Symptoms of Cerebro-Spinal Fever ... ..                          | 1,530              |
| 28       | Psittacosis ... ..                                               | 120                |
| 29       | Life History of the Fly ... ..                                   | 30                 |
| 30       | Notice on Free Vaccination of Children against Diphtheria ... .. | 2,850              |

## II.—Constructional Engineering Section

The Section is specially concerned with the revision of reports dealing with ablutionary systems of both private and Wakfs mosques with a view to laying down the necessary technical conditions for the sanitation of such systems. In some cases, the engineers of the Section have to examine, in person, these systems. 257 ablutionary systems of private mosques were examined and conditions laid down during 1935 as against 227 in the preceding year.

As this Department pays half of the cost of repairs of Wakfs mosques ; plans and estimates of repairs of such mosques are examined by this Section. During 1935, plans of 32 ablutionary systems, 23 preliminary estimates and 16 final estimates have been examined as compared with a total of 76 in 1934. 24 ablutionary systems were repaired and handed over during the year as against 14 in the previous year.

Moreover, a sum of L.E. 1,500 is provided in the Budget of this Department for the repair of private mosques having no revenues. 10 such mosques have been selected throughout the country for repair which will be completed in 1936. Such repairs will be carried out as long as a similar sum is provided in the Budget.

Examination of questions concerning cemeteries and indication of their sites on survey maps is also done by this Section.

Sites chosen for 4 Markaz Hospitals and 10 Village Hospitals have been approved by the Section. Building operations are proceeding and are expected to be completed during 1936. The new buildings of the out-patient clinic, ankylostoma branch and bacteriological laboratory of the new Tanta Hospital have been taken over by the Section.

The following shows the number of Government buildings maintained by this Section in so far as repairs and modifications are concerned :—

- (1) Central Administration.
- (2) Central Stores Buildings in Maglis El Nowab Street and Abbassia.
- (3) Public Health Laboratories, Anti-Rabic Institute and 9 Provincial Laboratories.
- (4) 19 general hospitals, 45 Markaz hospitals, 50 Village hospitals and 3 venereal diseases clinics.
- (5) 12 endemic diseases units.
- (6) 26 ophthalmic hospitals, and 29 ophthalmic branches in Markaz hospitals.
- (7) 15 infectious diseases hospitals.
- (8) Abbassia infectious diseases hospital.
- (9) Mental diseases hospitals at Abbassia and Khanka.

All plans, drawings and models required by the other Sections of the Department are also done by this Section. All drawings required by the Department for the 1936 Agricultural and Industrial Exposition were made by the Section.

## CHAPTER III

### Infectious Diseases' Control

#### Foreword

The most remarkable feature in this year's report as regards infectious diseases is the marked decrease in the case incidence of plague, small-pox, typhus, cerebro-spinal fever, as compared with 1934, also the non-notification of cases of relapsing fever. On the other hand there has been a slight increase in the case incidence of typhoid and para-typhoid of part I of the schedule attached to the law, and a large increase in case incidence of malaria, one of the diseases of part II of the schedule.

The following table No. 25 shows the number of cases of infectious diseases which occurred during 1935 as compared with those of 1933 and 1934 :—

TABLE No. 25

| Notifiable Infectious Diseases  | Cases |       |       | Deaths |       |       |
|---------------------------------|-------|-------|-------|--------|-------|-------|
|                                 | 1933  | 1934  | 1935  | 1933   | 1934  | 1935  |
| Plague ... ..                   | 78    | 115   | 40    | 33     | 48    | 27    |
| Typhus ... ..                   | 7,865 | 7,536 | 3,151 | 1,332  | 1,418 | 526   |
| Small-pox ... ..                | 5,691 | 1,344 | 165   | 976    | 252   | 19    |
| Relapsing fever ... ..          | 1     | 3     | —     | —      | —     | —     |
| Typhoid and Para-typhoid fever  | 3,986 | 4,284 | 4,334 | 897    | 969   | 1,037 |
| Scarlet fever ... ..            | 90    | 85    | 56    | 4      | 2     | 3     |
| Cerebro-spinal meningitis ...   | 1,603 | 626   | 240   | 1,100  | 464   | 200   |
| Encephalitis lethargica ... ..  | 12    | 4     | 4     | 11     | 3     | 5     |
| Acute polio-myelitis and ... .. | 2     | 5     | 13    | 1      | 4     | 2     |
| Acute polio-encephalitis ... .. | 10    | 18    | 14    | 5      | 6     | 2     |
| Anthrax ... ..                  | 1,575 | 2,029 | 2,181 | 623    | 892   | 1,052 |
| Diphtheria ... ..               | 8,678 | 8,002 | 6,664 | 2,366  | 2,781 | 2,025 |
| Measles ... ..                  | 3,531 | 2,036 | 1,620 | 316    | 169   | 135   |
| Whooping cough ... ..           | 868   | 1,598 | 893   | 30     | 27    | 24    |
| Paratitus (mumps) ... ..        | 12    | 14    | 15    | 2      | 3     | 2     |
| Undulant fever... ..            | 114   | 268   | 189   | 61     | 65    | 68    |
| Leprosy ... ..                  | 449   | 364   | 412   | 305    | 236   | 294   |
| Tetanus ... ..                  | 3,641 | 4,108 | 4,534 | 1,961  | 2,347 | 2,381 |
| Pulmonary tuberculosis ... ..   | 1,534 | 976   | 1,302 | 30     | 15    | 13    |
| Chicken-pox ... ..              | 4,611 | 7,032 | 7,317 | 251    | 360   | 400   |
| Influenza ... ..                | 567   | 505   | 460   | 457    | 428   | 392   |
| Puerperal fever... ..           | 1,435 | 2,325 | 2,468 | 476    | 599   | 520   |
| Dysentery (B. & A.) ... ..      | 3,464 | 3,640 | 3,483 | 837    | 894   | 751   |
| Erysipelas ... ..               | 2,559 | 3,057 | 7,560 | 23     | 30    | 62    |
| Malaria ... ..                  | —     | —     | 1     | —      | —     | —     |
| Dengue ... ..                   | —     | —     | 7     | —      | —     | —     |
| Infectious Jaundice ... ..      | —     | —     | —     | —      | —     | —     |

A special chapter is given hereafter for each of the important diseases.

#### Typhus

The causes of the spread of this disease were given in the report for 1933.

These may be summarized in the following :—

Poverty brought about by the financial depression which led the farmers, who represent the majority of the population of the country, to neglect the cleanliness of their bodies and clothes, thus causing increase the breeding of lice and the spread of the disease. The improvement in the financial condition and the stringent measures adopted by the Department in combating the disease have had a very marked effect in improving the condition, thus the number of cases fell from 7,536 in 1934 to 3,151 in 1935. The number of deaths was only 526 as against 1,418 in the previous year, *i.e.* the ratio of deaths fell from 18.8 per cent to 16.6 per cent.

The disease assumed an epidemic form in the Provinces of Gharbia and Behera wherein 2,035 cases occurred. Of these cases 271 died. In the provinces of Menoufia, Dakahlia, Sharkieh and Kaliubieh 750 cases occurred with 168 deaths. In the Governorates of Cairo, Alexandria, the Canal, Suez and the deserts 134 cases occurred, of which 35 died. The remaining cases, 232 in number, occurred in the provinces of Upper Egypt and most of these occurred in Aswân, Guiza, Beni Suef and Minia.

The Fatwa already given by his Eminence the *Mufty* of Egypt, showing the precepts of Islamic religion as to what should be done for protection against this disease, was republished and distributed amongst the preachers, *Imams* and school masters to be read before the public for guidance.

The Inspectors and Medical Officers of the Department gave many lectures warning the public against the dangers of this disease. They were asked to get in touch with the preachers in mosques and churches and with teachers of Kuttabs and Elementary Schools and the like requesting them to read to the public pamphlets and notices prepared by the Department on this particular disease.

Once typhus fever appears in a village, an Epidemic Medical Officer is sent with instructions to examine all deaths and to put this village, as well as villages and *Kufour* lying within a radius of 5 kilometres, under observation and to personally prepare lists of families and contacts. Arrangements have been made with general, markaz and village hospitals to delouse all persons, males or females, frequenting the outpatients clinics of these hospitals and at the same time deliver amongst them sanitary advices regarding the dangers of lice and the importance of cleanliness of body, clothes and bedding and keeping them free from lice.

The equipment required for this operation is issued from the local epidemic stores and the male and female attendants of these hospitals are trained on delousing by experienced employees of the Health Inspectorates.

The Department will resume, next year, the investigations carried out in 1933 on rats found in houses of typhus fever cases and which then proved the entire absence of the virus of the disease in the rats.

The Department spared no effort towards the application of all methods of prophylaxis against this disease. The experiments on prophylactic vaccine, commenced last year, were resumed.

Forty-eight bottles of this vaccine were imported from Mexico. Ezbet Kom Sawan of Abou Hommos District, population 218, which was infected with typhus, was chosen for this purpose. A nominal roll was made of the inhabitants of each house of this village showing serial number, name and age. 48 persons, age between 15 and 40, *i.e.* the ages in which persons are usually susceptible to infection with typhus, were chosen for inoculation provided that one or two persons from every house were inoculated, the others being left without inoculation.

Before the experiment was made, 19 cases of typhus fever had occurred in this village during the period from 26th January to 17th April. General delousing was carried out for the first time on February 25. It was made again on April 9. The first injection was given to all the 48 persons on April 20, and the second injection on April 27, 1935, and the third on May 4, 1935.

The persons inoculated developed no complications except a very slight local reaction. One of them fell sick on May 8th with tonsillitis and acute bronchitis. He was isolated, put under medical observation and given the necessary treatment. On May 15, he was perfectly cured.

The following table No. 26 shows the distribution of cases amongst the different provinces and Governorates of the country, given quarterly :—

TABLE NO. 26.

| Governorates and Provinces | 1st Quarter |        | 2nd Quarter |        | 3rd Quarter |        | 4th Quarter |        | Grand Total |        |
|----------------------------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
|                            | Cases       | Deaths | Cases       | Deaths | Cases       | Deaths | Cases       | Deaths | Cases       | Deaths |
| Cairo ... ..               | 20          | 3      | 14          | 4      | 3           | 2      | —           | —      | 37          | 9      |
| Alexandria ... ..          | 14          | 4      | 54          | 17     | 4           | 1      | 1           | —      | 73          | 22     |
| Port Said ... ..           | 3           | —      | 1           | —      | 4           | —      | —           | —      | 8           | —      |
| Suez... ..                 | —           | —      | —           | —      | —           | —      | 1           | 1      | 1           | 1      |
| Western Desert Province    | —           | —      | 11          | 3      | 4           | —      | —           | —      | 15          | 3      |
| Behera ... ..              | 454         | 58     | 465         | 60     | 33          | 26     | 56          | 3      | 1,008       | 147    |
| Dakahlia ... ..            | 198         | 33     | 20          | 4      | 4           | 3      | —           | —      | 222         | 40     |
| Gharbia ... ..             | 466         | 58     | 485         | 55     | 58          | 7      | 18          | 4      | 1,027       | 124    |
| Menufia ... ..             | 120         | 21     | 198         | 53     | 24          | 5      | —           | 1      | 342         | 80     |
| Qaliubia ... ..            | 6           | —      | 13          | 1      | 1           | 1      | 6           | —      | 26          | 2      |
| Sharqia ... ..             | 100         | 27     | 53          | 17     | 7           | 1      | —           | 1      | 160         | 46     |
| Aswân ... ..               | 31          | 10     | 54          | 10     | —           | —      | —           | —      | 85          | 20     |
| Asyut ... ..               | 12          | 2      | 1           | 3      | 7           | —      | 3           | 2      | 23          | 7      |
| Beni Suef ... ..           | 7           | —      | 5           | 2      | 2           | —      | —           | —      | 14          | 2      |
| Fayoum ... ..              | —           | —      | 1           | —      | —           | —      | 1           | —      | 2           | —      |
| Girga ... ..               | 8           | —      | 1           | 1      | 2           | —      | 2           | 1      | 13          | 2      |
| Giza ... ..                | 14          | 1      | 55          | 11     | 1           | 1      | —           | —      | 70          | 13     |
| Minia ... ..               | 1           | —      | 11          | —      | 5           | 2      | —           | —      | 17          | 2      |
| Kena ... ..                | 4           | 2      | 4           | 2      | —           | —      | —           | 2      | 8           | 6      |
| TOTAL ... ..               | 1,458       | 219    | 1,446       | 243    | 159         | 49     | 88          | 15     | 3,151       | 526    |

12,874 specimens were examined for Weil-Felix reaction of which 2,518 proved positive; 633 cases were clinically diagnosed.

*Typhoid and Paratyphoid Fever:—*

There has been a slight increase in the number of cases of this disease, as compared with last year. 4,334 cases have been reported this year, of which 1,037 died, *i.e.* a ratio of 24.2 per cent as against 4,284 cases reported last year, with 969 deaths and a ratio of 22.5 per cent.

Table No. 27 gives a four weekly statement of cases and deaths recorded, distributed according to provinces and Governorates. It appears from this table that the disease reached its climax during the summer months specially in July during which 624 cases with 147 deaths occurred.

This table shows that in Cairo alone 1,992 cases occurred with 549 deaths. In Alexandria 776 cases with 114 deaths. In the remaining Governorates 212 cases with 53 deaths, that is 68.7 per cent of the total number of cases occurred in Cairo, Alexandria and the remaining Governorates.

Special care was taken by the Department to trace the source of infection in every case against which necessary measures were taken. Very stringent measures were enforced against carriers.

The Department vaccinated all contacts of typhoid and paratyphoid cases and encouraged the public, by all means of publication and inducement, to obtain free prophylactic vaccination against this disease.

The Prisons Department and the Egyptian Army vaccinated a large number of prisoners and soldiers.

TABLE No. 27 —SHOWING FOUR-WEEKLY DISTRIBUTION OF CASES AND DEATHS FROM TYPHOID FEVER IN EGYPT DURING 1935.

| Governorates<br>and Provinces | 1-4   |        | 5-8   |        | 9-12  |        | 13-16 |        | 17-20 |        | 21-24 |        | 25-28 |        | 29-32 |        | 33-36 |        | 37-40 |        | 41-44 |        | 45-48 |        | 49-52 |        | Total |        |   |
|-------------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|---|
|                               | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |   |
| Cairo                         | 72    | 29     | 83    | 29     | 77    | 30     | 116   | 29     | 186   | 44     | 263   | 58     | 241   | 59     | 311   | 83     | 237   | 73     | 149   | 45     | 117   | 27     | 93    | 27     | 47    | 16     | 1,992 | 549    |   |
| Alexandria                    | 28    | 6      | 29    | 3      | 16    | 2      | 21    | 3      | 23    | 5      | 46    | 5      | 90    | 11     | 104   | 12     | 142   | 18     | 117   | 22     | 76    | 15     | 50    | 8      | 34    | 4      | 776   | 114    |   |
| Ismailia                      | —     | —      | —     | —      | —     | —      | —     | —      | —     | —      | 1     | —      | —     | —      | 9     | 1      | —     | —      | 2     | —      | 1     | —      | —     | —      | —     | —      | 1     | 13     | 2 |
| Port Said                     | 1     | —      | 5     | 1      | 1     | 1      | 2     | —      | 4     | 4      | 4     | 1      | 4     | 2      | 12    | 2      | 23    | 12     | 10    | 3      | 6     | 1      | 2     | —      | 1     | —      | 75    | 25     |   |
| Damietta                      | —     | 1      | 2     | —      | —     | —      | —     | —      | —     | —      | —     | —      | 3     | 2      | 2     | —      | —     | —      | —     | —      | —     | —      | —     | —      | —     | —      | 7     | 3      |   |
| Suez...                       | 5     | 1      | 5     | 1      | 7     | 1      | 4     | 1      | 4     | 1      | 3     | 1      | 7     | 2      | 20    | 5      | 10    | 2      | 7     | 1      | 8     | 1      | 15    | 1      | 5     | —      | 100   | 18     |   |
| Frontier Districts            | —     | —      | —     | —      | —     | —      | 1     | —      | 1     | —      | 2     | —      | 1     | 1      | 1     | —      | 3     | 2      | 3     | 1      | 3     | 1      | 2     | —      | —     | —      | 17    | 5      |   |
| Behera                        | 18    | 11     | 19    | 6      | 9     | 3      | 17    | 2      | 13    | 1      | 3     | 1      | 4     | 4      | 6     | 2      | 8     | 4      | 12    | 1      | 5     | —      | 5     | —      | 5     | 1      | 124   | 37     |   |
| Dakahlia...                   | 4     | 1      | 10    | 6      | 20    | 3      | 17    | 2      | 15    | 3      | 17    | 4      | 6     | 1      | 24    | 7      | 12    | 3      | 10    | 4      | 14    | 4      | 8     | —      | 6     | 3      | 163   | 41     |   |
| Gharbia                       | 10    | 2      | 9     | 3      | 20    | 6      | 9     | 2      | 18    | 1      | 23    | 4      | 20    | 2      | 36    | 7      | 19    | 3      | 20    | 6      | 12    | 1      | 11    | 2      | 17    | 4      | 224   | 43     |   |
| Menoufia...                   | 3     | —      | 8     | 2      | 5     | 2      | 2     | 1      | 6     | 1      | 3     | 1      | 10    | 3      | 14    | 5      | 9     | 5      | 10    | 3      | 3     | 1      | 9     | 4      | 8     | 2      | 90    | 30     |   |
| Qaliubia                      | 6     | —      | 3     | 1      | 1     | —      | 4     | 1      | 3     | 3      | 7     | 5      | 7     | 3      | 13    | 2      | 12    | 1      | 15    | 3      | 12    | 3      | 6     | 3      | 11    | —      | 100   | 25     |   |
| Sharqia                       | 7     | 2      | 5     | 1      | 3     | —      | 7     | 2      | 10    | —      | 6     | 2      | 17    | 2      | 8     | 1      | 19    | 1      | 17    | 2      | 11    | 2      | 11    | 2      | 8     | 3      | 129   | 20     |   |
| Guiza                         | 1     | 3      | 2     | 1      | 5     | —      | 4     | —      | 6     | 3      | 8     | 3      | 9     | 4      | 9     | 4      | 7     | 3      | 7     | 3      | 3     | 2      | 4     | 1      | 6     | 4      | 71    | 31     |   |
| Beni Suef                     | 2     | —      | —     | —      | 3     | 1      | 4     | 1      | 5     | 1      | 6     | 2      | 1     | —      | 4     | —      | 4     | —      | 6     | —      | 2     | 1      | —     | —      | —     | —      | 49    | 6      |   |
| Fayoum                        | —     | —      | —     | —      | —     | —      | 3     | 2      | 3     | 1      | —     | —      | 5     | 1      | 5     | 1      | 2     | —      | 1     | —      | 2     | 2      | —     | —      | —     | —      | 21    | 7      |   |
| Minia                         | —     | —      | 3     | 2      | 6     | —      | 6     | —      | 12    | 2      | 14    | 2      | 3     | —      | 13    | 3      | 26    | 1      | 12    | 2      | 14    | 1      | 10    | —      | 10    | 2      | 131   | 15     |   |
| Asyût                         | 6     | —      | 4     | 3      | 4     | 2      | 2     | 1      | 2     | 1      | 9     | 1      | 13    | 3      | 17    | 10     | 22    | 4      | 11    | 9      | 6     | 4      | 7     | 1      | 6     | 2      | 109   | 41     |   |
| Guirgua                       | 1     | 1      | 4     | 1      | 1     | —      | 1     | —      | 2     | —      | 6     | —      | 4     | 1      | 13    | 1      | 5     | —      | 4     | —      | 5     | 1      | 4     | 2      | 10    | —      | 60    | 7      |   |
| Kena                          | 1     | 1      | 5     | 1      | 5     | 1      | 5     | 1      | 5     | —      | 2     | —      | 2     | —      | 2     | —      | 7     | 1      | 3     | 1      | 9     | 1      | 11    | 2      | 13    | 6      | 70    | 15     |   |
| Aswân                         | —     | —      | 1     | —      | —     | —      | 1     | —      | 2     | —      | 1     | —      | —     | —      | 1     | 1      | 2     | —      | 1     | 1      | 3     | 1      | —     | —      | 1     | —      | 13    | 3      |   |
| TOTAL                         | 167   | 58     | 197   | 61     | 183   | 52     | 226   | 48     | 320   | 71     | 424   | 60     | 447   | 99     | 624   | 147    | 569   | 133    | 417   | 107    | 312   | 69     | 257   | 54     | 191   | 48     | 4,334 | 1,037  |   |

The number of persons inoculated throughout the country was 66,457 given one injection and 123,348 given two injections making a total of 189,805 persons, as shown below :—

TABLE NO 28

|                         | Persons given one injection | Persons given two injections | Total   |
|-------------------------|-----------------------------|------------------------------|---------|
| Cairo ... ..            | 19,193                      | 18,314                       | 37,507  |
| Alexandria ... ..       | 24,916                      | 17,850                       | 42,766  |
| Other localities ... .. | 1,391                       | 29,084                       | 30,475  |
| Prisons ... ..          | 15,542                      | 52,012                       | 67,554  |
| Egyptian Army ... ..    | 5,415                       | 6,088                        | 11,503  |
| Total ... ..            | 66,457                      | 123,348                      | 189,805 |

Of the 1,566 cases which occurred in the Provinces and Governorates (Cairo and Alexandria excluded) reports were received about 917 cases. These reports showed that 708 were males and 209 were females, *i.e.* a ratio of 7 to 2. The result of bacteriological examination was positive for Widal reaction for all cases except 10 in which the result was negative and were diagnosed according to the clinical symptoms.

The following table No. 29 shows the ages of these 917 cases and the ratio per cent to these cases :—

TABLE NO. 29

|                            | Number | ratio per cent |
|----------------------------|--------|----------------|
| Less than one year ... ..  | —      | —              |
| From 1 to 10 years ... ..  | 185    | 20·2           |
| From 11 to 20 years ... .. | 235    | 25·6           |
| From 21 to 30 years ... .. | 307    | 33·5           |
| From 31 to 50 years ... .. | 166    | 18·1           |
| Above 50 years ... ..      | 24     | 2·6            |
|                            | 917    |                |

The following statement shows the occupations of these cases :—

|                                           |     |
|-------------------------------------------|-----|
| Farmers ... ..                            | 253 |
| Students ... ..                           | 50  |
| Coffeemen and waiters ... ..              | 12  |
| Servants ... ..                           | 18  |
| Ghaffirs and Policemen ... ..             | 79  |
| Cooks ... ..                              | 4   |
| Prisoners ... ..                          | 25  |
| Government Officials and Employees ... .. | 38  |
| Merchants and vendors ... ..              | 107 |
| Without occupation ... ..                 | 331 |

The source of infection of these cases could not be decisively determined, yet the following causes have, to a certain extent, been traced :—

|                                        |     |
|----------------------------------------|-----|
| From carriers ... ..                   | 14  |
| From actual patients ... ..            | 1   |
| From contaminated water ... ..         | 36  |
| From contaminated foods ... ..         | 404 |
| From flies ... ..                      | 32  |
| Unknown and mostly due to flies ... .. | 430 |
|                                        | 917 |

No cases occurred amongst officials of the Department, entrusted with combating the diseases, during and through the performance of their duties.

As the eating of shell-fish such as *Oysters*, *Ballah el Bahr*, *Mussels*, *Midia* and *Akhtinia*, etc., is amongst the causes of the spread of enteric fevers in summer, and as Ministerial Arrêté issued on June 16, 1912, prohibits the fishing of Oysters only in Egyptian waters and in the Suez Canal and their sale in all parts of Egypt during the period from May 1st to September 1st of each year, it has been considered necessary to modify this Arrêté so that prohibition would include all kinds of shell-fish.

As the fishing of Oysters, *Nahid* and *Bolbul* for industrial purposes is usually practised throughout the year, special provision has been made in the proposed modified Arrêté allowing the fishing of the said species, during the prohibition period, in virtue of a special permission from the Department of Public Health and according to the conditions to be laid down by the Department. The said Arrêté has been put in legal form and sent to the Ministry of Justice for submission to the General Assembly of the Mixed Court of Appeal so that it may be applicable to foreigners too. It is expected that this Arrêté will be issued next year.

### *Small-Pox*

At the end of 1932 small-pox appeared in epidemic form in Alexandria where 510 cases occurred out of 606 cases throughout the whole country. Then the disease took a serious aspect and the number of cases recorded during 1933 reached 5,691. In 1934 there was a very marked declension in the case incidence of this disease as only 1,344 cases occurred. This decrease was due to the effect of the general vaccination campaign which was commenced in 1933.

In 1935, the number of cases fell to 165, one of which was imported from abroad, with only 19 deaths. Of these 165 cases, 155 cases occurred in Dakahlia Province which had been left without vaccination. During this year, its whole population has been re-vaccinated. All the inhabitants of other villages in which cases of small-pox were reported, have been vaccinated.

The following table No. 30 shows the distribution of cases and deaths recorded during 1935 :—

TABLE No. 30

| Governorate or Province | Number of cases | Number of deaths |
|-------------------------|-----------------|------------------|
| Suez... ..              | 1               | 1*               |
| Gharbia ... ..          | 5               | —                |
| Dakahlia ... ..         | 155             | 15               |
| Asyût ... ..            | 2               | 1                |
| Aswân ... ..            | 2               | 2                |
|                         | 165             | 19               |

\* Imported from India

### *Cerebro-Spinal Fever*

The decrease in the number of cases has continued year after year since the wave which invaded the country in 1932. The number of cases fell from 4,508 in the said year to 1,603 in 1933, 626 in 1934 and 240 in 1935. Most of the cases occurred in the Governorates and in the Lower Egypt Provinces—79 cases were recorded in the Governorates and 98 in the said Provinces. The remaining 63 cases occurred in Upper Egypt Provinces.

The following table No. 31 shows the distribution of cases and deaths amongst the different localities of the country and the deformities caused to patients who recovered.

TABLE NO. 31 CASES AND DEATHS OF CEREBRO-SPINAL MENINGITIS IN EGYPT DURING 1935.

| Governorate<br>or Province | Number of<br>Cases | Number of<br>Deaths | Deformities                                                        |
|----------------------------|--------------------|---------------------|--------------------------------------------------------------------|
| Cairo ... ..               | 46                 | 33                  |                                                                    |
| Alexandria ... ..          | 14                 | 11                  |                                                                    |
| Ismailia ... ..            | 4                  | 3                   |                                                                    |
| Port Said ... ..           | 8                  | 4                   |                                                                    |
| Damietta ... ..            | 2                  | 3                   |                                                                    |
| Suez ... ..                | 3                  | 1                   |                                                                    |
| Frontier Districts         | 2                  | 1                   | One case of paralysis in the lower part of the body but improving. |
| Behera... ..               | 5                  | 3                   |                                                                    |
| Dakahlia ... ..            | 29                 | 32                  | One case of partial deafness. No improvement.                      |
| Gharbia ... ..             | 27                 | 17                  |                                                                    |
| Menoufia ... ..            | 10                 | 11                  |                                                                    |
| Qaliubia ... ..            | 15                 | 14                  |                                                                    |
| Sharqia ... ..             | 39                 | 30                  |                                                                    |
| Aswân ... ..               | —                  | —                   |                                                                    |
| Asyût ... ..               | 10                 | 12                  |                                                                    |
| Beni Suef ... ..           | 6                  | 3                   | One case of Deafness.                                              |
| Fayoum ... ..              | 9                  | 11                  |                                                                    |
| Girga ... ..               | —                  | —                   |                                                                    |
| Giza ... ..                | 3                  | 6                   |                                                                    |
| Minia ... ..               | 6                  | 4                   |                                                                    |
| Kena ... ..                | 2                  | 1                   |                                                                    |
| TOTAL ...                  | 240                | 200                 |                                                                    |

TABLE NO. 32—CASES AND DEATHS OF CEREBRO-SPINAL MENINGITIS DURING THE LAST FIVE YEARS.

| Year        | Cases | Deaths | Death-rate<br>per cent |
|-------------|-------|--------|------------------------|
| 1931 ... .. | 871   | 511    | 58·6                   |
| 1932 ... .. | 4,508 | 2,568  | 56·9                   |
| 1933 ... .. | 1,603 | 1,100  | 68·6                   |
| 1934 ... .. | 626   | 464    | 74·1                   |
| 1935 ... .. | 240   | 200    | 83·3                   |

### Measles.

The number of cases notified during the year was 6,664 with 2,025 deaths, *i.e.* a death-rate of 30·38 per cent as against 8,002 cases with 2,781 deaths in the preceding year. The number of cases which occurred this year is less than in the last two years. The death-rate fell from 34·7 per cent in 1934 to 30·38 per cent this year. This rate is still high although the disease is not fatal, if mothers would only take appropriate care of their children and do not expose them to the complications which cause most of the deaths.

### Influenza.

The number of cases of Influenza reported this year was slightly more than that of last year. 7,317 cases were reported of which 400 died, *i.e.* a death-rate of 5·46 per cent as against 7,032 cases with 360 deaths in last year, *i.e.* a death-rate of 5·1 per cent. The death-rate is nearly the same in both years.

Most of the cases which occurred were of the mild type and the disease did not take an epidemic form in any locality nor were there any pulmonary complications worthy of mention.

### Diphtheria.

A slight increase has taken place in the number of cases recorded this year as compared with last year. 2,181 cases with 1,052 deaths have been recorded, *i.e.* a death-rate of 48·2 per cent as against 2,029 cases with 892 deaths in last year, *i.e.* a death-rate of 43·9 per cent.

This shows a perceptible increase in the death-rate which is probably due to the delay of parents in reporting a large number of cases to the public health authorities. This delay helps the disease advance, rendering the treatment unsuccessful.

Although the Department encouraged the public by all means of publication and inducement and by placing prophylactic anatoxin in all Government Hospitals, Public Health Offices, First-Aid Societies at his disposal, and by inviting guardians of children on attaining the first year of age, to present them for inoculation with prophylactic anatoxin, explaining to them the benefits of such immunization, yet the result is far from what was expected.

The number of letters (Form No. P.H.D./49) sent to guardians of children who attained one year of age was 24,999 exclusive of Cairo and Alexandria.

The following return gives the number of children inoculated with prophylactic anatoxin during the last two years :—

| Year               | Number of Children inoculated |                      |                        | Number of cases which occurred amongst children inoculated |                        |                       |
|--------------------|-------------------------------|----------------------|------------------------|------------------------------------------------------------|------------------------|-----------------------|
|                    | Given one injection           | Given two injections | Given three injections | After first injection                                      | After second injection | After third injection |
| <b>1934</b> ... .. | 24,187                        | 18,991               | 31,749                 | 26                                                         | 14                     | 3                     |
| <b>1935</b> ... .. | 25,313                        | 20,294               | 35,458                 | 15                                                         | 1                      | 1                     |

No complications occurred to the vaccinated children with the exception of local reaction and slight rise in temperature. In Alexandria, one of the children inoculated died with peritoneal shock.

Of the cases which occurred after inoculation, 11 occurred in Minia Province, 3 in Kena Province and one case in Gharbia.

### Plague.

Only 40 cases were reported during this year with 27 deaths ; this is the smallest number recorded during the past 5 years.

With the exception of one case reported from Alexandria Governorate, all the remaining Governorates have remained entirely free from plague.

The whole of Lower Egypt also has remained free from the disease and the great majority of the cases occurred in Asyût Province, where 29 cases were reported of which 22 were from Manfalout District, 4 in Deirout District, 2 in Abu Tig District and 1 in Mallawi District. The remainder of the cases were reported from Minia, Girga and Kena Provinces.

The followign table No. 33 shows the number of cases and deaths which occurred during this year in the various districts :—

TABLE NO. 33

| Town or District  | Province or Governorate | Remaining | New admissions |            |           | Deaths in hospital |            |           | Cured | Remaining | Deaths outside hospital |            |           | Total Cases | Total Deaths |
|-------------------|-------------------------|-----------|----------------|------------|-----------|--------------------|------------|-----------|-------|-----------|-------------------------|------------|-----------|-------------|--------------|
|                   |                         |           | Bubonic        | Septicæmic | Pneumonic | Bubonic            | Septicæmic | Pneumonic |       |           | Bubonic                 | Septicæmic | Pneumonic |             |              |
| Alexandria ... .. | Govte.                  | —         | 1              | —          | —         | —                  | —          | —         | 1     | —         | —                       | —          | —         | 1           | —            |
| Bani Mazar ... .. | El Minya                | —         | 3              | —          | —         | 1                  | —          | —         | 2     | —         | —                       | —          | —         | 3           | 1            |
| Deirout ... ..    | Asyût                   | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 4          | —         | 4           | 4            |
| Manfalout ... ..  | „                       | —         | 17             | 2          | —         | 7                  | 2          | —         | 10    | —         | 1                       | 2          | —         | 22          | 12           |
| Abu Tig ... ..    | „                       | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 2          | —         | 2           | 2            |
| Mallawi ... ..    | „                       | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 1          | —         | 1           | 1            |
| Girga ... ..      | Girga.                  | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 2          | —         | 2           | 2            |
| Tahta ... ..      | „                       | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 2          | —         | 2           | 2            |
| Suhâg ... ..      | „                       | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 1          | —         | 1           | 1            |
| Dishna ... ..     | Kena.                   | —         | —              | —          | —         | —                  | —          | —         | —     | —         | —                       | 1          | —         | 1           | 1            |
| Kena ... ..       | „                       | —         | 1              | —          | —         | —                  | —          | —         | 1     | —         | —                       | —          | —         | 1           | —            |
| GRAND TOTAL ...   |                         |           | —              | 22         | 2         | —                  | 8          | 2         | —     | 14        | —                       | 1          | 15        | —           | 40 26        |

The disease appeared in an epidemic form at Meir Village only, Manfalout District. The remaining cases were sporadic and occurred in various localities. In all cases, the necessary precautionary measures were adopted. These measures included, in addition to the isolation of cases and observation of contacts, the inoculation of contacts in sporadic cases and a general vaccination of the entire population in the localities where more than one case had occurred.

41,047 persons were inoculated of whom 8,148 were given one injection only.

The following table shows the localities from which plague was reported :—

TABLE NO 34

| Moudiria          | Markaz            | Locality                      | Number of cases |       |        | Total |                       |
|-------------------|-------------------|-------------------------------|-----------------|-------|--------|-------|-----------------------|
|                   |                   |                               | Bub.            | Sept. | Pneum. | Cases | Deaths                |
| Alexandria ... .. | —                 | —                             | 1               | —     | —      | 1     | —                     |
| Asyût ... ..      | Deirout ... ..    | Tanouf ... ..                 | —               | 1     | —      | 1     | 1 outside.            |
|                   | „ ... ..          | El Amaria El-Sharkia ... ..   | —               | 1     | —      | 1     | —                     |
|                   | „ ... ..          | El Matawa ... ..              | —               | 1     | —      | 1     | 1 outside.            |
|                   | „ ... ..          | Biblow ... ..                 | —               | 1     | —      | 1     | 1 „                   |
|                   | Manfalout ... ..  | Beni Salih ... ..             | 3               | 1     | —      | 4     | 3 of which 1 outside. |
|                   | „ ... ..          | El Atamna ... ..              | —               | 1     | —      | 1     | 1 outside.            |
|                   | „ ... ..          | Meir ... ..                   | 15              | 2     | —      | 17    | 8 of which 1 outside. |
|                   | Abou Tig ... ..   | Beni Feiz ... ..              | —               | 1     | —      | 1     | 1 outside.            |
|                   | „ ... ..          | Kom Abu Hagar ... ..          | —               | 1     | —      | 1     | 1 „                   |
|                   | Mallawi ... ..    | Beni Roah ... ..              | —               | 1     | —      | 1     | 1 „                   |
| Minya ... ..      | Beni Mazar ... .. | Eitou ... ..                  | 2               | —     | —      | 2     | 1 „                   |
|                   | „ ... ..          | Shams ed Din, Abu Gurg ... .. | 1               | —     | —      | 1     | —                     |
| Girga ... ..      | Girga ... ..      | Awamir Bahari ... ..          | —               | 1     | —      | 1     | 1 outside.            |
|                   | „ ... ..          | Bawarik ... ..                | —               | 1     | —      | 1     | 1 „                   |
|                   | Tahta ... ..      | Beni Ammar ... ..             | —               | 1     | —      | 1     | 1 „                   |
|                   | „ ... ..          | El Aghana ... ..              | —               | 1     | —      | 1     | 1 „                   |
|                   | Suhag ... ..      | Samarna ... ..                | —               | 1     | —      | 1     | 1 „                   |
| Kena ... ..       | Deshna ... ..     | Halfaya Kibli ... ..          | —               | 1     | —      | 1     | 1 „                   |
|                   | Kena ... ..       | Kift ... ..                   | 1               | —     | —      | 1     | —                     |
|                   |                   |                               | 23              | 17    | —      | 40    | 26                    |

#### Researches.

The Department conducted, early in October 1934, a vigorous campaign for the destruction of rats in the villages of Deirout, Manfalout and Mallawi Districts in Asyut Province, Fashn in Minya Province; Beba in Beni Suef Province; Giza District and some of the villages in Embaba District, bordering Giza, owing to the usual appearance of plague in these localities and the high Nile Flood of that year which caused the inundation of all

agricultural lands surrounding the villages and the migration of rats from their usual abodes in the fields to the neighbouring houses, Nile banks, canals and *hods*. Thus arose the danger of the spread of plague.

All details regarding this campaign, including number of rats trapped in each Mudiria and their species were recorded in last year's report. The results of experiments on fleas collected, 425 in number, which were not then completed are herebelow shown :—

The Research Institute carried out investigations on three fleas from each specimen sent, which revealed the following :—

- (1) The fleas examined were of two, species only namely *Xenopsylla Cheopis* and *Xenopsylla Chephrensis*. Fleas of the 1st species formed 92 per cent of the specimens examined. This was the only species found in Asyût Province. It was also found amongst specimens collected from Giza. *X. Chephrensis* was only found in those collected from Giza. In one specimen collected from Giza (Nazlet El Samman and el Kom El Akhdar) both species were detected.
- (2) The ratio of female fleas, in both types, is much larger than the males as shown herebelow :

TABLES No 35

| Species               | Number of fleas | Female       | Male        | Increase of females over males |
|-----------------------|-----------------|--------------|-------------|--------------------------------|
| X. Cheopis ... ..     | 149             | 124 or 82·1% | 25 or 16·9% | 99 = 66·2%                     |
| X. Chephrensis ... .. | 12              | 9 or 75 %    | 3 or 25 %   | 6 = 60 %                       |

In all localities in which the disease appeared, the Department waged a vigorous campaign for the destruction of rats. 14,030 rats were caught alive and 142 dead.

In addition, 18,867 live rats were caught in Cairo, 6,367 live and 141 dead rats in Alexandria.

A permanent Campaign for catching rats throughout the year is carried out in the Ports of Alexandria, Port Said and Suez. Rats caught are being sent to the Quarantine Laboratories in these ports for examination.

The following table No 36 shows the rats trapped and result of their examination :—

TABLES No 36

| Locality          | Number of rats trapped and type |           |               | Number of fleas found |           |               |
|-------------------|---------------------------------|-----------|---------------|-----------------------|-----------|---------------|
|                   | Accomys                         | R. Rattus | R. Norvegicus | Acomys                | R. Rattus | R. Norvegicus |
| Alexandria ... .. | 44                              | 1,198     | 4,626         | —                     | 2,264     | 5,391         |
| Port Said ... ..  | —                               | 437       | 5,440         | —                     | 1,043     | 9,710         |
| Suez ... ..       | 56                              | 114       | 1,067         | 3                     | 17        | 743           |

### Malaria.

The number of malaria cases reported to the Department began to increase yearly since the disease became notifiable in 1930 as shown herebelow :—

TABLES No 37

| Year               | Number of cases | Number of deaths | Ratio of deaths to cases |
|--------------------|-----------------|------------------|--------------------------|
|                    |                 |                  | Per cent                 |
| <b>1930</b> ... .. | 924             | 25               | 2·7                      |
| <b>1931</b> ... .. | 1,230           | 22               | 1·78                     |
| <b>1932</b> ... .. | 1,343           | 23               | 1·71                     |
| <b>1933</b> ... .. | 2,559           | 23               | 0·89                     |
| <b>1934</b> ... .. | 3,057           | 30               | 0·98                     |
| <b>1935</b> ... .. | 7,560           | 62               | 0·81                     |

This gradual increase may be attributed on one hand, to the fact that the people notify the Health Offices of their patients, of their own accord, to benefit by the gratuitous treatment and, on the other hand, to the strict measures taken for combating the disease in localities where cases occur.

These measures were mentioned in detail in last year's report. As regards the apparent increase in the last two years, it is mainly due to the abnormal Nile Flood in consequence of which vast mosquito breeding grounds occurred.

The following table No 38 shows the weekly incidence in all the country throughout the year

TABLE No. 38.—SHOWING WEEKLY INCIDENCE OF MALARIA DURING THE YEAR 1935.

| Governorate or Mudiria | 1st Week |   | 2nd Week |   | 3rd Week |   | 4th Week |   | 5th Week |   | 6th Week |   | 7th Week |   | 8th Week |   | 9th Week |   | 10th Week |   | 11th Week |   | 12th Week |   | 13th Week |   |
|------------------------|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                        | C        | D | C        | D | C        | D | C        | D | C        | D | C        | D | C        | D | C        | D | C        | D | C         | D | C         | D | C         | D | C         | D |
| Cairo ...              | —        | — | —        | — | 1        | — | —        | — | 2        | — | 1        | — | —        | — | —        | — | —        | — | 1         | — | 2         | — | —         | — | —         | — |
| Alexandria ...         | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 1         | — | 2         | 1 | —         | — | —         | — |
| Ismailia ...           | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 1        | — | 1         | — | 1         | — | —         | — | —         | — |
| Port-Said ...          | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 1        | — | —         | — | —         | — | —         | — | —         | — |
| Danietta ...           | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Suez ...               | —        | — | 1        | — | 1        | — | 2        | — | —        | — | —        | — | 2        | — | 1        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Frontier Districts     | 4        | — | —        | — | 2        | — | 5        | — | 1        | — | 8        | — | —        | — | —        | — | 3        | — | 1         | — | 2         | — | —         | — | 2         | — |
| Behera...              | —        | — | —        | — | 4        | — | —        | — | —        | — | 4        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | 4         | — |
| Dakahlia ...           | —        | — | —        | — | —        | — | 3        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Gharbia ...            | —        | — | —        | — | —        | — | 1        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Menoufia ...           | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 2        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Kalubia ...            | 2        | — | —        | — | —        | — | 8        | — | 11       | — | 1        | — | 2        | — | 2        | — | 10       | — | 11        | — | 6         | — | 17        | — | 5         | — |
| Sharkia ...            | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 1        | — | —         | — | —         | — | —         | — | —         | — |
| Aswân ...              | 1        | — | —        | 1 | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 1        | — | —         | — | —         | — | —         | — | —         | — |
| Asyût ...              | 2        | — | —        | — | —        | — | —        | — | —        | — | —        | — | 1        | — | —        | — | 1        | — | 1         | — | —         | — | —         | — | —         | — |
| Beni Suef ...          | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Fayoum ...             | 33       | — | —        | — | 2        | 1 | 2        | — | 1        | — | —        | — | —        | — | 2        | — | —        | 1 | 1         | — | —         | — | 1         | — | 3         | — |
| Girga ...              | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Giza ...               | —        | — | —        | — | —        | — | 1        | — | —        | — | 1        | — | —        | — | —        | — | —        | — | —         | — | 2         | — | —         | — | 2         | — |
| Minia ...              | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| Kena ...               | 1        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —        | — | —         | — | —         | — | —         | — | —         | — |
| TOTAL                  | 43       | — | 4        | 1 | 11       | 1 | 22       | — | 15       | — | 15       | — | 7        | — | 9        | — | 20       | 1 | 23        | — | 16        | 1 | 21        | — | 22        | — |

TABLE No. 38 SHOWING WEEKLY INCIDENCE OF MALARIA DURING THE YEAR 1935 (continued).

| Governorate or Mudiria | 14th Week |   | 15th Week |   | 16th Week |   | 17th Week |   | 18th Week |   | 19th Week |   | 20th Week |   | 21st Week |   | 22nd Week |   | 23rd Week |   | 24th Week |   | 25th Week |   | 26th Week |   |
|------------------------|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                        | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D |
| Cairo ...              | —         | — | 1         | — | 2         | 1 | 1         | — | 2         | — | 1         | 1 | —         | — | 3         | — | 4         | — | 4         | — | 2         | — | 8         | — | 9         | — |
| Alexandria...          | 1         | — | 1         | — | 2         | — | 2         | — | 4         | — | 8         | — | 4         | — | 3         | — | 2         | — | 6         | — | 4         | 1 | 11        | — | 10        | — |
| Ismailia               | 1         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 3         | — | 2         | — | 3         | — | —         | — | —         | — | 3         | — |
| Port-Said              | —         | — | —         | — | 1         | — | —         | — | —         | — | 1         | — | —         | — | —         | — | —         | — | 1         | — | —         | — | —         | — | —         | — |
| Damietta               | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — | —         | — | —         | — | —         | — |
| Suez ...               | 1         | — | 3         | — | 5         | — | 3         | — | 1         | — | —         | — | —         | — | 5         | — | 4         | — | 4         | — | 1         | — | 6         | 1 | 1         | — |
| Frontier Districts     | 9         | — | —         | — | 4         | — | 2         | — | 1         | — | 4         | — | 1         | — | 2         | — | 2         | — | —         | — | —         | — | 1         | — | 13        | — |
| Behera...              | —         | — | —         | — | 29        | — | —         | — | 1         | — | 2         | — | 2         | — | 1         | — | 1         | — | 5         | — | 6         | — | 16        | — | 16        | — |
| Dakahlia               | —         | — | —         | — | —         | — | 7         | — | 1         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — | 1         | — | 1         | — |
| Gharbia                | —         | — | —         | — | 7         | — | —         | — | 1         | — | 2         | — | —         | — | 2         | — | 1         | — | —         | — | 2         | — | 5         | — | 4         | — |
| Menoufia               | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — | —         | — | 3         | — | 1         | — | 1         | — | 1         | — | 1         | — | 2         | — |
| Kaliubia               | 11        | — | 5         | — | 2         | — | 12        | — | 7         | — | 33        | — | 20        | — | 10        | — | 21        | 2 | 17        | — | 11        | — | 31        | — | 21        | — |
| Sharkia                | —         | — | —         | — | 16        | — | 23        | — | —         | — | 1         | — | —         | — | 1         | — | —         | — | 3         | — | —         | — | 3         | — | 3         | — |
| Aswân...               | —         | — | 19        | — | —         | — | —         | — | 3         | — | 28        | — | —         | — | 1         | — | 1         | — | —         | — | 27        | 1 | —         | — | —         | — |
| Asyût ...              | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — |
| Beni Suef              | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 2         | — | —         | — | 3         | — |
| Fayoum                 | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | 1 | 3         | — | 4         | — | —         | — | —         | — | 3         | — |
| Girga ...              | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — |
| Giza ...               | —         | — | 7         | — | —         | — | 2         | — | 4         | — | 2         | — | —         | — | —         | — | 1         | — | —         | — | 1         | — | 4         | — | 2         | — |
| Minia ...              | 1         | — | —         | — | —         | — | —         | — | 1         | — | —         | — | 1         | — | 6         | — | 1         | — | 2         | — | 2         | — | 6         | 1 | 9         | — |
| Kena ...               | —         | — | —         | — | 1         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — | 1         | — | —         | — |
| TOTAL                  | 24        | — | 36        | — | 69        | 1 | 52        | — | 26        | — | 83        | 1 | 28        | — | 40        | 1 | 44        | 2 | 52        | — | 61        | 2 | 96        | 2 | 100       | — |

TABLE No. 38 SHOWING WEEKLY INCIDENCE OF MALARIA DURING THE YEAR 1935 (continued).

| Governorate or Mudiria |     | 27th Week |   | 28th Week |   | 29th Week |   | 30th Week |   | 31st Week |   | 32nd Week |   | 33rd Week |   | 34th Week |   | 35th Week |   | 36th Week |   | 37th Week |   | 38th Week |   | 39th Week |   |
|------------------------|-----|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                        |     | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D |
| Cairo                  | ... | 10        | — | 7         | — | 12        | — | 13        | — | 12        | — | 22        | — | 23        | — | 14        | 1 | 27        | — | 20        | — | 58        | — | 32        | — | 23        | — |
| Alexandria             | ... | 9         | — | 8         | — | 22        | — | 22        | — | 12        | — | 19        | — | 23        | — | 21        | — | 20        | — | 29        | 1 | 37        | — | 34        | — | 23        | — |
| Ismailia               | ... | 3         | — | 4         | — | —         | — | 6         | — | 7         | — | 3         | — | 2         | — | 12        | — | 10        | — | 17        | — | 9         | — | 13        | — | 11        | — |
| Port-Said              | ... | 3         | — | 1         | — | —         | — | —         | — | 3         | — | —         | — | 2         | — | 4         | — | 5         | — | 4         | — | 4         | — | —         | — | 1         | — |
| Damietta               | ... | 1         | — | —         | — | —         | — | —         | — | 1         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — |
| Suez                   | ... | 3         | — | 3         | — | 5         | — | 2         | — | 9         | — | 4         | — | 14        | 1 | 15        | — | 3         | — | 12        | — | 11        | — | 8         | — | 8         | 1 |
| Frontier Districts     | ... | 9         | — | —         | — | 4         | — | 4         | — | 3         | — | 7         | — | 12        | — | 5         | — | 5         | — | 10        | — | 10        | 1 | 9         | — | 12        | — |
| Behera...              | ... | 18        | — | 9         | — | 11        | — | 13        | — | 16        | — | 9         | — | 11        | — | 17        | — | 5         | — | 12        | — | 32        | — | 13        | — | 15        | — |
| Dakahlia               | ... | —         | — | —         | — | —         | — | 1         | — | 1         | — | 2         | — | 1         | — | —         | — | 3         | — | 7         | — | 6         | — | —         | — | 5         | 1 |
| Gharbia                | ... | 2         | — | 7         | — | 10        | — | 10        | 1 | 7         | 1 | 9         | — | 9         | — | 11        | 1 | 5         | — | 10        | — | 17        | — | 12        | — | 23        | — |
| Menoufia               | ... | 4         | — | 5         | — | 3         | — | 5         | — | 8         | — | 15        | — | 1         | — | 5         | — | 1         | — | 6         | — | 11        | — | 8         | — | 7         | — |
| Kalubia                | ... | 24        | — | 41        | — | 22        | — | 30        | — | 82        | — | 94        | — | 100       | — | 104       | — | 69        | — | 130       | — | 284       | — | 246       | — | 50        | — |
| Sharkia                | ... | 2         | — | 2         | — | 3         | — | 5         | — | 5         | 1 | 6         | — | 7         | — | 4         | 1 | 6         | — | 1         | — | 12        | — | 3         | — | 14        | — |
| Aswân                  | ... | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 30        | — | —         | — | —         | — |
| Asyût                  | ... | 1         | — | —         | — | —         | — | 2         | — | 2         | — | 1         | — | 1         | — | —         | — | 1         | — | 2         | — | 4         | — | 3         | — | 3         | — |
| Beni Suef              | ... | 2         | — | 1         | — | 1         | — | 2         | — | 1         | — | 2         | — | 2         | — | 2         | — | 3         | — | 1         | — | 2         | — | 4         | — | 3         | — |
| Fayoum                 | ... | —         | — | 1         | — | 1         | — | 15        | — | 56        | — | 21        | — | 15        | 1 | 7         | — | 11        | — | 6         | — | 26        | — | 16        | — | 23        | — |
| Girga                  | ... | —         | — | —         | — | 1         | — | —         | — | —         | — | 1         | — | —         | — | 2         | — | 1         | — | 1         | — | —         | — | —         | — | —         | — |
| Giza                   | ... | 6         | — | 1         | — | 2         | — | 5         | 1 | —         | — | —         | — | 1         | — | 5         | 2 | —         | — | 4         | — | 4         | — | 28        | — | 5         | — |
| Minia                  | ... | 4         | — | 2         | — | —         | — | —         | — | —         | — | 4         | — | 4         | — | 2         | — | 7         | — | 4         | — | 4         | — | 2         | — | 11        | — |
| Kena                   | ... | —         | — | 1         | — | —         | — | —         | — | —         | — | 1         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — |
| TOTAL                  |     | 101       | — | 93        | — | 97        | — | 135       | 2 | 225       | 2 | 220       | — | 228       | 2 | 230       | 5 | 182       | — | 276       | 1 | 561       | 1 | 431       | 2 | 239       | 2 |

TABLE No. 38 SHOWING WEEKLY INCIDENCE OF MALARIA DURING THE YEAR 1935 (concluded).

| Governorate or Mudiria |     | 40th Week |   | 41st Week |   | 42nd Week |   | 43rd Week |   | 44th Week |   | 45th Week |   | 46th Week |   | 47th Week |   | 48th Week |   | 49th Week |   | 50th Week |   | 51st Week |   | 52nd Week |   |
|------------------------|-----|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|-----------|---|
|                        |     | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D | C         | D |
| Cairo ...              | ... | 22        | — | 37        | 1 | 27        | — | 19        | — | 16        | — | 16        | — | 18        | — | 16        | 1 | 10        | — | 14        | — | 2         | — | 2         | — | 3         | — |
| Alexandria ...         | ... | 38        | — | 27        | — | 24        | 1 | 21        | — | 25        | — | 25        | 2 | 18        | — | 12        | — | 4         | — | 2         | — | 2         | — | 4         | — | 4         | — |
| Ismailia ...           | ... | 10        | — | 40        | — | 46        | 1 | 53        | — | 93        | — | 89        | — | 49        | — | 16        | — | 103       | 2 | 167       | — | 16        | — | 59        | — | 26        | — |
| Port-Said ...          | ... | 3         | — | —         | — | 1         | — | —         | — | 3         | — | 1         | — | 3         | — | 2         | — | 1         | — | 1         | — | —         | — | —         | — | —         | — |
| Damietta ...           | ... | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — | —         | — |
| Suez ...               | ... | 4         | — | —         | — | 5         | — | 1         | — | 15        | — | 6         | — | 4         | 1 | 3         | — | 3         | — | 5         | — | 2         | — | 2         | — | 1         | — |
| Frontier Districts     | ... | 16        | — | 21        | — | —         | — | —         | — | —         | — | 17        | — | 12        | — | 5         | — | 10        | 2 | 12        | — | 15        | — | 4         | — | 5         | — |
| Behera...              | ... | 20        | — | 37        | — | 36        | — | 13        | — | 28        | — | 23        | — | 10        | 2 | 20        | — | 46        | — | 19        | — | 13        | 1 | 13        | — | 3         | — |
| Dakahlia ...           | ... | 2         | — | 6         | — | 3         | — | 4         | — | 3         | — | 1         | — | 1         | — | 1         | — | —         | — | 1         | — | —         | — | —         | — | —         | — |
| Gharbia ...            | ... | 22        | 1 | 9         | — | 16        | — | 4         | — | 5         | 1 | 6         | — | 2         | — | 1         | — | 1         | — | —         | — | 2         | — | 5         | — | 1         | — |
| Menoufia ...           | ... | 5         | — | 2         | — | 5         | — | 2         | — | 2         | — | 7         | — | 2         | — | 4         | — | 2         | — | 1         | — | —         | — | —         | — | —         | — |
| Kaliubia ...           | ... | 64        | — | 166       | — | 158       | 2 | 138       | — | 86        | — | 70        | — | 51        | — | 77        | — | 49        | — | 24        | — | 29        | 1 | 14        | — | 8         | — |
| Sharkia ...            | ... | 11        | — | 19        | — | 16        | — | 13        | — | 25        | — | 19        | — | 3         | — | 12        | — | 6         | — | 3         | — | 3         | — | 3         | — | —         | — |
| Aswân ...              | ... | 1         | — | —         | — | —         | — | —         | — | —         | — | —         | — | 6         | — | 9         | — | —         | — | —         | — | 1         | — | 1         | — | —         | — |
| Asyût ...              | ... | 2         | — | 2         | — | 6         | — | 2         | — | —         | — | 1         | — | 3         | — | 2         | — | —         | — | 2         | — | 1         | — | —         | — | —         | — |
| Beni Suef ...          | ... | 3         | — | 3         | — | 4         | — | 1         | — | 3         | — | 6         | 1 | 2         | — | 3         | — | 2         | — | 4         | — | 1         | — | —         | — | 1         | — |
| Fayoum ...             | ... | 41        | — | 22        | 1 | 28        | — | 20        | 1 | 90        | — | 38        | — | 38        | — | 22        | 2 | 41        | — | 36        | 1 | 81        | — | 36        | — | 34        | — |
| Girga ...              | ... | —         | — | 1         | — | —         | — | 1         | — | —         | — | —         | — | —         | — | 4         | — | 1         | — | —         | — | —         | — | —         | — | —         | — |
| Giza ...               | ... | 50        | — | 8         | — | 2         | — | 3         | — | 2         | — | 2         | — | 3         | — | 2         | — | —         | — | —         | — | 2         | — | —         | — | —         | — |
| Minia ...              | ... | 7         | — | 9         | — | 14        | — | 16        | — | 9         | — | 9         | 1 | 6         | — | 2         | — | 5         | — | 3         | — | 3         | — | 1         | — | 2         | — |
| Kena ...               | ... | —         | — | —         | — | —         | — | —         | — | —         | — | 1         | — | 1         | — | —         | — | —         | — | —         | — | —         | — | 1         | — | —         | — |
| TOTAL                  | ... | 321       | 1 | 409       | 2 | 391       | 4 | 311       | 1 | 405       | 3 | 337       | 4 | 232       | 3 | 213       | 3 | 284       | 4 | 294       | 1 | 173       | 2 | 145       | — | 88        | — |

This table shows that the increase commenced in the 31st week, *i.e.* in August, which coincides with the rise of the Nile Flood.

In view of the Italo-Abyssinian War in East Africa and the arrival of some cases of malaria from Erithrea, the Department issued instructions to the Port Health Offices to send observation lists to their destinations for observation and treatment. Detailed instructions for the treatment and prophylaxis of contacts were, in the meantime, issued to the Health Offices.

The following table No. 39 shows the malaria cases and deaths notified during the year compared with those reported during the preceding year :—

TABLE NO. 39.

| Governorate or Province   | 1934  |        | 1935  |        | Increase or Decrease |        |
|---------------------------|-------|--------|-------|--------|----------------------|--------|
|                           | Cases | Deaths | Cases | Deaths | Cases                | Deaths |
| Cairo ... ..              | 252   | 8      | 519   | 5      | + 267                | — 2    |
| Alexandria ... ..         | 361   | 1      | 548   | 6      | + 187                | + 5    |
| Ismailia ... ..           | 149   | —      | 874   | 3      | + 725                | + 3    |
| Port Said ... ..          | 59    | 1      | 51    | —      | — 8                  | — 1    |
| Suez ... ..               | 80    | —      | 177   | 4      | + 97                 | + 4    |
| Damietta ... ..           | 4     | —      | 4     | —      | —                    | —      |
| Frontier Districts ... .. | 422   | —      | 298   | 4      | — 124                | + 4    |
| Behera ... ..             | 346   | 1      | 550   | 6      | + 204                | + 5    |
| Dakahlia ... ..           | 74    | 3      | 55    | 2      | — 19                 | — 1    |
| Gharbia ... ..            | 63    | 3      | 249   | 5      | + 186                | + 2    |
| Menoufia... ..            | 92    | —      | 123   | —      | + 31                 | —      |
| Qaliubia ... ..           | 590   | 1      | 2,486 | 5      | +1,896               | + 4    |
| Shurqia ... ..            | 68    | 3      | 215   | 3      | + 147                | —      |
| Giza ... ..               | 32    | 1      | 175   | 2      | + 143                | + 1    |
| Fayoum ... ..             | 173   | —      | 767   | 10     | + 594                | + 10   |
| Beni Suef ... ..          | 15    | —      | 64    | 1      | + 49                 | + 1    |
| Minia ... ..              | 94    | 2      | 165   | 4      | + 71                 | + 2    |
| Asyût ... ..              | 92    | 2      | 46    | —      | — 46                 | — 2    |
| Girga ... ..              | 16    | 2      | 15    | —      | — 1                  | — 2    |
| Kena ... ..               | 7     | 2      | 10    | —      | + 3                  | — 2    |
| Aswân ... ..              | 68    | 1      | 169   | 2      | + 101                | + 1    |
| TOTAL ... ..              | 3,057 | 31     | 7,560 | 62     | +4,503               | + 32   |

This shows a comparatively marked increase in Cairo, Alexandria, Ismailia, Suez and in the Provinces of Behera, Gharbia, Kaliubia, Sharkia, Giza, Fayoum, Aswân, Beni-Suef and Minya.

Details as to the reasons of this increase in each area, the mosquito breeding grounds and measures taken are herebelow described.

In Cairo, the increase began about the end of August, *i.e.* during the Nile Flood, subsequent to which the infiltration water appeared in vast lowlying areas in the suburbs of the city where it had appeared last year and which proved to constitute breeding places for anopheles responsible for several cases of malaria occurring amongst the Egyptian and British Troops encamping there.

Some gangs were immediately formed for the suppression of the ditches, cleaning of depressions filled with infiltration water and dusting them periodically with Paris Green.

Some cases also occurred amongst the troops in the Citadel and investigations carried out for detecting the source of infection revealed that anopheles were breeding in the fountains and water flows of the Tanzim park situated at Khalifa Square.

Arrangements were there upon made with the Tanzim Administration to change the water in these fountains once every week and to instal gulleys in the vicinity to drain the waste water.

These recommendations were executed and complaints subsequently ceased.

Furthermore, few cases occurred amongst the Royal Air Force Troops at Helwan. Investigations proved the existence of a small spring some 750 metres to the south east of the camp. This spring was at once dealt with,

A birka formed from leakage of the Sewage Depot of Helwan Town was also discovered at about 1,500 metres to the east of the Camp. The Tanzim Administration was requested to suppress this birka as well as the pits situated in the vicinity of the Sewage Depot which was done at once.

At Tura, several cases occurred inside the "Asylum for the Aged" belonging to the Ministry of wakfs by reason of a swamp existing in its neighbourhood which was filled in.

In addition to these measures, a permanent campaign against mosquitoes has been maintained in the city and its suburbs since the outbreak of Dengue Fever in 1928.

The Anti-Malaria Commission had also filled in 4 dangerous birkas, one at Helwan quarries, at about one kilometre from Foad Sanatorium, another at Tura, near Sultan Hussein Elementary School and the other two at Minet El Serig, all forming breeding grounds for anopheles.

The Egyptian State Railways had also filled in two borrowpits, one extending for a distance of three kilometres alongside Helwan Railway and the other at Ezbet El Nakhl extending alongside the railway for half a kilometre.

Propaganda by publication of pamphlets and broadcasting was also exercised.

In Alexandria, the Municipality undertakes the sanitary affairs by virtue of the regulations laid down for the constitution of the Municipal Council. Nevertheless, the Department of Public Health looks upon the malaria problem in Alexandria with keen interest, being responsible for public health throughout the country. For this reason, the Director of the Research Institute made a detailed survey for malaria in Alexandria and its outskirts, including the causes of the spread of the disease and the method of prevention. A special report was published in the year 1934.

A Ministerial Arrêté was issued in 1934 applying the Malaria Law to Alexandria and its outskirts. The issue of another Ministerial Arrêté for the prevention of rice cultivation near Alexandria is being considered by the Municipality.

As regards the Suez Canal Zone, the condition at Port Said was normal and attention was directed to the birkas existing within the drainage farm. These birkas were cleaned and dusted periodically with Paris Green and the drains connecting them with Lake Menzala were maintained.

In Ismailia region, which extends from Abu Souer to Ismailia and thence to Fanara, the southern limit of Canal Governorate, 874 cases were reported of which 303 were new and the remaining 571 recurrent. When the Department noticed a rapid increase in the malaria incidence there, arrangements were made to divide that area into the following three sections, viz. :—

- (1) Nefisha to 2 kilometres west of Abu Souer.
- (2) Ismailia to Serapium.
- (3) Serapium to Fanara.

In each of these sections, a malaria station was installed and charged with the following work :—

- (1) Clearing of irrigation drains from vegetation.
- (2) Cleaning the edges of birkas and marshes and oiling these edges.
- (3) Dusting with Paris Green where oil cannot be used.
- (4) Stocking birkas, marshes and water channels with the appropriate variety of fish.
- (5) Making researches to determine to what degree the disease is endemic in each area and the extent of spread of malaria.
- (6) Drawing sketch plans showing sites of mosquito breeding grounds and infected places.
- (7) Thorough treatment of malaria cases and issue of quinine for the prophylaxis of contacts and other persons liable to infection.

The Canal Co. was, meanwhile, requested to suppress the mosquito breeding grounds within its concession, i.e. in the area situated between the Fresh Water Canal and the Maritime Canal from Kantara to Ismailia including *Bir El Fawara* and *Bir El Murra* east of the canal and south east of Ismailia.

168 Ezbas with a population of 26,584 were inspected. 22,182 blood smears were examined for malaria parasites of which 866 were returned positive (*i.e.* 3.9 per cent Parasitic Index). 2,506 children were discovered suffering from enlarged spleen (*i.e.* 11.2 per cent Splenic Index). 32 Government birkas covering 1,116 feddans and 36 private birkas covering 225.5 feddans were cleaned. 17 birkas were stocked with fish, 29 oiled and 26 dusted with Paris Green. Of 184 larvae specimens collected and examined by the Research Institute 99 were returned positive for anopheles. 196 warnings were served on owners of private breeding grounds and 46 Procès Verbeaux of contraventions drawn up against proprietors failing to carry out the measures recommended.

The estimate for draining the Government and private birkas at Maskhouta was made and it is hoped the work will be finished during the coming year. Arrangements were also made with the Irrigation Department to allow private owners to take the surplus earth on the banks of the Fresh Water Canal for filling in their birkas.

Borrow pits caused by the Main Roads Department alongside the Ismailia-Abu Souer Road No. 30 were suppressed, and pits caused by the Royal Air Force on the banks of Ismailia Canal by taking earth for agricultural purposes for their gardens were also filled in.

Sketch Plans were prepared showing the following :—

1. Government birkas and drains.
2. Private birkas and drains.
3. Birkas partly Government and partly private.
4. Birkas drained and their areas.
5. Birkas filled in and their areas.
6. Birkas and drains cleared from vegetation.
7. Birkas oiled.
8. Birkas dusted with Paris Green.
9. Birkas stocked with fish.
10. Places and number of malaria positive cases and their type.
11. Sites of breeding grounds for anopheles.
12. Procès Verbeaux and the position of the contravention.
13. Warnings and position of the contravention.

It was also considered necessary to destroy mosquitoes in trains, before arriving at Ismailia. The Egyptian State Railways was requested to undertake this operation which was done in passengers trains. But owing to objections raised by some passengers, it is intended to hang posters in carriages to the effect that the operation is done for the benefit of the passengers. These posters will also be hung in express trains.

The Irrigation Department undertakes the grading of irrigation drains and clearing of irrigation channels.

The Canal Co. had filled in the marshes situated on the borders of the Sweet Water Canal in the area extending from Ferdan to Ballah between the Maritime Canal and the Sweet Water Canal and there still remain two large marshes between the railway line and the Sweet Water Canal which will be filled in.

The Military Authorities have carried out anti-malarial measures inside the camps. Every previous case of malaria was treated again to eliminate any malaria carrier. "Direction Finders", *i.e.* glass plates coated with tangle-foot stuff, were placed facing the four directions of the camp to see from which directions the mosquitoes came. This method was adopted with success in India. The plates were collected at the close of each day and after counting mosquitoes and entering the number in special records, were repainted and placed as before.

In the meantime, special care is directed to the question of draining the two areas extending from Ismailia to Abu Souer and from Ismailia to Serapium. By completing these two projects and treating the malaria patients efficiently, the malaria problem in the Canal zone will have been solved and large areas of marshes reclaimed and utilized for cultivation purposes, thus rendering them healthy and profitable for both the inhabitants and Government.

The measures taken at Suez, are by no means less than those taken in Ismailia region. Some drains and pits were discovered in the gardens, Kubri and Shelloufa areas in addition

to 7 large birkas extending from the city to Kubri. The pits were filled in, the drains cleared and the birkas treated periodically with larvicides. The work was entrusted to a Medical Officer who was specially detailed for this purpose. The number of gangs charged with drain clearing was also increased so as to cope with the work in a satisfactory manner.

In Kaliubia, the majority of cases were reported from Gebel El Asfar Zone where the disease is endemic and the work there is undertaken by the Research Institute. The remainder of the cases occurred in Kaliub area to which the malaria law was applied. A surveillant and a gang were stationed there for clearing the birkas and marshes and dusting them periodically with Paris Green.

In Behera, 288 cases were reported from Edku area as against 235 in the preceding year.

There exists a malaria station for conducting the treatment, prophylaxis and anti-mosquito measures in birkas, drains, irrigation channels, etc., in the area from Edku to Rosetta and Raml.

Some cases were reported from Asmania and Mehallet Ebeid, Shubrakheit and Teh El Baroud Districts by reason of the existence of some birkas and rice cultivations. The birkas were stocked with fish, patients treated and contacts supplied with quinine for prophylaxis.

In Giza, it appeared from the investigations carried out that the disease is endemic in the area extending from Giza Pyramids to Awsim where anopheles breed in birkas and wells scattered in that area for irrigation of vegetables. A malaria station was established at Kafr Ghatati, Kerdasa Village, near the Pyramids. This station is supervised by the Research Institute. A medical officer and some surveillants and labourers were detailed for visiting these villages, enlisting the patients, their contacts and the various mosquito breeding grounds for periodical treatment. 109 cases were recorded, all of them were treated and quinine issued to their contacts for prophylaxis.

In Fayoum Province, three stations were instituted at Fayoum, Sennoures and Abshawai. These stations undertake the treatment of patients, prophylaxis and anti-mosquito measures in the various mosquito breeding grounds.

767 cases were reported from Fayoum Mudiria as against 173 in the preceding year. The increase is mainly due to the strict measures adopted. Villages were carefully inspected and thousands of blood specimens were taken, besides the examination of spleens of all children in schools, Kuttabs, etc, which led to the detection of this large number of cases. They were all efficiently treated and issued with tonics for the extermination of parasites from their blood in order to avoid relapses, and thus lessen the number of malaria carriers.

In Aswân, 169 cases were reported of which 146 emanated from the villages of Geneina, Toshki Shark, Toshki Gharb, Derr, Tenkula, Dewan, Ibrim, Tomas, Ketta and Masmas in Derr District by reason of the changes which occurred in this district following the second raising of the Aswân Dam. When the dam was opened and the water withdrew from the dam area, large birkas and marshes were left scattered throughout the district.

The Department, therefore, detailed three medical officers and an adequate number of surveillants and gangs for carrying out the following measures:—

- (1) Filling in and draining of small birkas.
- (2) Stocking large birkas with fish and treating them periodically with Paris Green.
- (3) Stocking disused sakias with fish.
- (4) Pumping the large birkas into the Nile. This work was carried out by the Ministry of Public Works.
- (5) Regular issue of quinine and tonics to patients and contacts.
- (6) Periodical dusting of the remaining collections of water with Paris Green.

The disease was consequently suppressed early in June.

Some cases occurred at Aswân, subsequent to the fall of the water level in the dam and the formation of a birka to the north east of the Dam Colony and extending from the barrage to the Egyptian State Railways Station in which anopheline mosquitoes were breeding. At the request of the Department, some drains were made by the Dam authorities which drained the greater part of the birka. The remainder was treated by larvicides.

Steps are being taken to apply the malaria law to Aswân Bandar.

In the remaining provinces, although the incidence was comparatively higher, yet the cases were sporadic in many villages. Nevertheless, adequate measures were taken for treatment, prophylaxis and anti-mosquito measures which had resulted in the non-occurrence of cases.

Miristerial Arrêtés were issued for the application of the malaria law to the following localities :—

Abu Hommos, Kombaniet Abu Kir, in Behera.

Sanhour El Kiblia, Shawashna, Kefour El Nil, Abshawai, Abuxah, Zerbi, Tobhar, El Mashrak Kibli, Kahk, in Fayoun.

Salmia, Foa District.

Anshas El Raml, Basatin Ismailia, in Belbeis District.

Kassasin, Mahsama Kadima, Mahsama Gedida, Abu Souer, El-Balad, Abu Souer El Mahatta, Sabaa Abar Sharkia, Sabaa Abar Gharbia, Nefisha, in Sharkia and attached to Ismailia in sanitary affairs. Attara, Arab Alayikat, Kafr El Shobak, Arab Goheina, in Shebin El Kanater, Kaliubia.

Shebin El Kom Bandar in Menoufia.

#### PROTECTING THE COUNTRY AGAINST IMPORTED EPIDEMICS

In order to protect the Country against imported epidemics, all passengers arriving by sea or air from infected localities abroad are subjected to medical surveillance.

Special attention is given to pilgrims returning from the Holy Lands.

#### THE PILGRIMAGE

5,046 Egyptian pilgrims proceeded to the Hedjaz this year. Of these 13 died in the Hedjaz ; 2 at Tor and 3 died after returning to their districts. All pilgrims who returned were observed for the legal period.

Nine of the pilgrims who returned to their districts fell sick with the following diseases :—

| Infectious Diseases |                      | Ordinary Diseases |                                         |
|---------------------|----------------------|-------------------|-----------------------------------------|
| Number              | Disease              | Number            | Disease                                 |
| 1                   | Influenza.           | 1                 | Diarrhœa and Enteritis.                 |
| 1                   | Bacillary Dysentery. | 2                 | Enteritis.                              |
|                     |                      | 1                 | Diabetes and gangarime in the left leg. |
|                     |                      | 1                 | Gangarime in the leg.                   |
|                     |                      | 2                 | Bronchitis and debility.                |

All pilgrims were, as usual, inoculated against cholera and typhoid and vaccinated against small-pox before their departure.

The Department also enforced the regulations concerning the sanitary control of pilgrims returning from the Hedjaz for the legal period.

A medical mission was sent to the Hedjaz provided with sufficient equipment and drugs. It performed its work at Mecca and proceeded with pilgrims to Arafat and Muna. After the pilgrimage ceremonies have been completed the mission returned to Mecca and resumed its work there during the stay of Egyptian pilgrims and then returned to Egypt.

The number of patients treated in the Out-patients clinic were 5,038. Of these 1,095 were Egyptians, 2,578 Hedjazians and the rest were of other nationalities.

The Department took the necessary steps for the control of the two routes of the Eastern desert and the Red Sea for the purpose of intercepting pilgrims returning by these two routes trying to escape the sanitary surveillance.

In view of the fact that Tor Vibrio was found in the stools of some pilgrims who arrived at Tor on 2 April, 1935, the pilgrims were retained and isolated in Tor under observation. The Department issued strict instructions to its Medical Officers and Inspectors to carry out a very careful observation of the pilgrims of this year.

## SANITARY CONTROL

33,667 passengers arrived at the Egyptian ports. Of these 33,646 were observed ; the percentage of those observed was thus 99·93. 32,083 passengers arrived *via* Kantara, of whom 32,077 were observed ; the percentage of those observed was 99·98.

Owing to the occurrence of cholera in Bombay of British India, and owing to the fact that India is connected with this country by fast air lines, the Department in conjunction with the Quarantine Board, decided to take special measures for the control of arrivals from that district in order to protect Egypt from the danger of this disease.

### CERTIFICATES OF VACCINATION AGAINST SMALL-POX AND CHOLERA DEMANDED FROM PASSENGERS COMING FROM ABROAD

In December 1935, the International Public Health Office at Paris asked the Department to be informed by cable whenever it is decided to demand certificates of vaccination against small-pox and cholera from passengers coming from abroad in order to cable same to the Health Authorities concerned, so that the passengers could provide themselves with the said certificates in due time before their departure.

The Department acceded to this request and decisions of putting countries under the passengers control arrêté for the control of arrivals against small-pox or cholera are now cabled to that Office.

### MODIFICATION OF PASSENGER CONTROL ARRÊTÉ.

Para (D) of article 3 of the Ministerial Arrêté issued in 1933 *re* sanitary control of passengers coming from infected countries, stipulates that persons in possession of a medical certificate attesting that they had suffered from small-pox or that they have been vaccinated against this disease within a period less than two years and more than three weeks would be exempted from medical examination.

As the Sanitary Convention for aerial Navigation which was ratified by the Egyptian Government, stipulates that persons will be considered as possessing immunity against small-pox if they could prove that they had suffered from this disease or that they have been vaccinated within a period less than three years and more than 12 days ; the Department took necessary measures to modify para (D) of the Ministerial Arrêté so as to be in conformity with the said Convention.

The necessary modification was revised by the Contentieux and forwarded to the Ministry of Justice to be submitted to the Legislative Committee and then to the General Assembly of the Mixed Court of Appeal.

In September, the Egyptian Government ratified the International Sanitary Convention signed at Paris on June 21, 1926.

In conformity with article 163 of the said Convention, the number of the Egyptian delegates in the Quarantine Board was increased to five, *viz.* :—

- (1) The President of the Board—appointed by the Egyptian Government.
- (2) Inspector General.
- (3) Three delegates appointed by the Egyptian Government.

### PERMITS FOR TRANSPORT OF RAGS

During this year, the Ministry issued 110 permits for transport of rags ; of these 21 permits by Nile ; 72 by motor-cars and 17 by railways. 5 permits by Nile, 10 by motor-cars and 8 by railways were returned.

It was observed that some of the rag merchants transport rags by sailing ships and motor-cars without a permit. The Ministry of Communications was asked to issue instructions to the Internal Navigation Department and the Main Roads Department to observe the enforcement of the regulations regarding the transport of rags by not allowing ships loaded with rags to pass from the Hawises, and any ships or motor-cars found transporting rags without a permit should be arrested. The nearest Health Office should be notified so that the Medical Officer concerned could draw up a *procès-verbal* of contravention and ask for confiscation of the rags, in conformity with article 2 of Law No. 1, 1906.

At the end of the year, four motor-cars loaded with rags transported from Cairo to Alexandria without a permit were arrested by the ghaffir of Kafr-el-Dawar bridge. The rags were kept in a place afar from the buildings and a ghaffir was appointed to guard them. A procès-verbal of contravention was drawn up against the person who transported the rags without authorisation and the Court was requested to issue judgment for their confiscation.

### FEVER HOSPITALS

No new fever hospitals were built during this year. The Department has selected the necessary sites for the building of hospitals at Fayoum and Benha. A part of the budget of the Provincial Councils of Kalioubia, Sharkia, Dakahlia, Giza and Kena set aside for sanitary work, has been allotted for the building of hospitals at Kalioub, Abu Kebir, Dekernes, Ayyat and Nag-Hamadi,

Two *jeddans* in each of the said localities were selected. It is expected that the buildings would be completed and the hospitals opened by the end of next year.

The number of patients who were treated in fever hospitals during this year was 20,767 ; of these 18,123 were cured, 615 improved and 1,939 died.

The following table No. 40 shows the number of patients in each hospital:—

TABLE NO. 40

|                      | Total  | Cured  | Died  | Improved | Number of beds |        |
|----------------------|--------|--------|-------|----------|----------------|--------|
|                      |        |        |       |          | Non-paying     | Paying |
| Alexandria ... ..    | 3,913  | 3,177  | 302   | 434      | 134            | 4      |
| Cairo ... ..         | 6,706  | 5,968  | 713   | 56       | 598            | 75     |
| Port-Said ... ..     | 497    | 390    | 46    | 7        | 69             | 26     |
| Suez ... ..          | 1,424  | 1,357  | 64    | 7        | 78             | 7      |
| Damietta ... ..      | 280    | 228    | 40    | 12       | 31             | —      |
| Damanhour ... ..     | 899    | 786    | 97    | 25       | 52             | —      |
| Mansoura ... ..      | 976    | 880    | 87    | —        | 37             | 6      |
| Tanta ... ..         | 1,450  | 1,289  | 150   | —        | 120            | —      |
| Shebin el Kom ... .. | 791    | 685    | 90    | 14       | 36             | —      |
| Zagazig ... ..       | 1,403  | 1,269  | 132   | 3        | 60             | —      |
| Beni Suef ... ..     | 334    | 281    | 32    | 9        | 28             | 2      |
| Minia ... ..         | 860    | 775    | 57    | 12       | 32             | —      |
| Assiout ... ..       | 881    | 729    | 98    | 32       | 38             | 3      |
| Luxor ... ..         | 191    | 178    | 11    | —        | 27             | 7      |
| Kena ... ..          | 162    | 131    | 20    | 4        | 16             | —      |
|                      | 20,767 | 18,123 | 1,939 | 615      |                |        |

### INFECTIOUS DISEASES LAWS AND REGULATIONS.

The Department drafted two project laws modifying arts. 11 and 12 of the Infectious Diseases Law No. 15 of 1912. Para 1 of article 11 of the said law provides for the prevention of all meetings in tombs and cemeteries and for the closure, by administrative authorities, of markets if an infectious disease spreads in the condition mentioned in the said article.

In view of the fact that cerebro-spinal fever invaded the country during late years and it is easily spread in winter in crowded and poorly ventilated establishments such as cinema houses, dancing and singing halls and all other similar establishments as well as in sporting congregations, which are not included in the above article, necessary steps have been taken towards the enactment of a law modifying the said article so as to empower the administrative authorities to stop sporting congregations and to administratively close all places of public amusement, so long as these places are considered a source of spreading the infection.

The definition of places which may be closed by the Administrative Authority is taken from the definition agreed to by the Legislative-Committee during the discussion of the project law regarding the places of public amusement.

As regards article 12 of the said law regarding the penalty, the Department noticed that the penalty of not more than P.T. 100 was not at all deterrent ; nevertheless, most of the judgments given did not exceed P.T. 20 which was responsible for the increase in the number of cases of non-notification of infectious diseases by the persons concerned. This lead to the appearance and spreading of many infectious diseases, especially in villages, before the Public Health authorities could take the necessary steps in due time for isolating the sick and combating the disease.

It was, therefore, deemed necessary to modify the said article by adding imprisonment for a period not exceeding one week to the penalty of fine.

During this year, the Government ratified the International Convention on the mutual protection against Dengue fever signed at Athens on July 25, 1934.

## CHAPTER IV.

### HEALTH INSPECTORATES SECTION

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#### GENERAL

Much has been done towards the organisation of the Public Health Offices and Treatment Institutions and their proper application of the Department instructions and regulations as a result of the special interest taken by the Divisional and Public Health Inspectors during their tours of inspection.

It is worthy of mention that the new arrangement, by which these inspectors are made representatives of the Department in their Provinces and are charged with the supervision of almost all the treatment institutions within their jurisdiction, in addition to the supervision of the Public Health Offices, has proved very satisfactory. These institutions now realise the constant surveillance of the inspectors.

The activities of the inspectors show a continual increase which is significant of the great interest they take in the work of the officials and employees of the Department to whom they often give valuable advice for the proper carrying out of their duties. The total number of inspections and investigations amounted to 632 in 1933, 987 in 1934 and 1,178 in 1935. The number of enquiries carried out by the inspectors shows a marked decrease during the last three years which indicates that the officials of the Department in the provinces are performing their duties satisfactorily.

#### FEVER HOSPITALS.

The shelter at Damietta has been converted into a permanent fever hospital. The running expenses of Mit-Ghamr permanent shelter have been granted. It has been proposed to construct fever hospitals at Benha, Fayoum and Suhag Bandars.

It is the policy of the Department to construct as many fever hospitals in the Districts as its funds and those of the Provincial Councils permit.

Many of the male attendants have been substituted by trained female nurses graduated at Government hospitals. This arrangement will be gradually introduced to all the fever hospitals. For the proper organisation of these hospitals they shall also be provided with *Moaweneen* and assistant pharmacists.

#### SUBDIVISION OF CIRCUMSCRIPTION OF PUBLIC HEALTH OFFICES.

As an appreciation of this project, the 5 year programme laid down in this respect has been approved. It has been decided to create 25 health offices during each of the years 1936, 1937, 1938 and 50 health offices during 1939-1940.

The sum of L.E. 38,000 will be required for each of the first three years and L.E. 75,000 for the last year. It has also been decided to reorganise 16 health offices during each of the first three years, which will require an annual sum of L.E. 13,000 and 36 offices during the last year with a total cost of L.E. 28,000. The credit for the construction of the proposed health offices has been applied for in this year's budget and as soon as it is approved, steps will be taken towards their immediate execution. There is no doubt this subdivision of health offices will warrant the proper carrying out of the work and the convenience of both the officials and the public.

#### MEDICO-LEGAL SERVICE.

In spite of the expansion of the Medico-Legal Department and its branches, the M. Os. of this Department still carry out much of the medico-legal work, *e.g.* rendering first-aid and treatment to injured persons in criminal cases. During the year under review they have examined 26,840 accidental cases and 88,868 criminal cases as against 27,377 and 85,218 cases respectively during the previous year.

## PROSTITUTES

The report of the commission of enquiry into the problem of public prostitution has been approved by the Council of Ministers. The abolition of public prostitution will take place in conformity with the said report. Meanwhile no permits shall be granted to prostitutes after the promulgation of the Law which is being laid down for this purpose. Of the necessary measures to be adopted are : expansion of the campaign against venereal diseases, delivering lectures in schools on the danger of these diseases, and creation of an office for dealing with actual prostitutes through marriage, employment, expatriation of foreign prostitutes and creation of homes for those incapable of working.

The total number of prostitutes on the register this year was 3,361 as against 3,632 in the previous year.

110,081 examinations were carried out as against 109,120 in the previous year.

Nevertheless, 428 complaints have been received by the Department during the year against prostitutes having conveyed the disease to others as compared with 204 complaints during last year. 3,866 unregistered women have been arrested as against 3,412 in 1934.

The number of persons seeking treatment at the Venereal Diseases Clinics, Cairo clinics excluded, amounted to 160,790 as against 149,044 in the previous year.

As a result of the abolition of licensed prostitution in Behera Province, it has been ascertained that the number of students and young persons, not over 21 years of age, suffering from venereal diseases showed on apparent decrease during the years following the abolition. During the years 1931-1932 there were 131 sick students. This number fell to 10 only or 92 per cent less during the years 1933-1934 (after abolition).

During the same period, the number of sick young persons was 371 before abolition and fell to 122 or 67.1 per cent less after abolition. This result is undoubtedly met with great appreciation and confidence in the success of abolition.

## FRONTIER DISTRICTS MEDICAL SERVICE

### *Infectious Diseases.*

The state of public health in the Frontier Districts was, on the whole, satisfactory, with the exception of Mersa Matruh where 260 cases of Influenza with 24 deaths, 128 cases of Dysentery with 3 deaths and 142 cases of Measles with 14 deaths were recorded ; El Kharga where 161 cases of Measles with 32 deaths and 2 cases of Cerebro-Spinal fever with one death were notified ; Siwa where 113 cases of Influenza with 18 deaths and El Kosseir where 311 cases of Influenza with one death were registered.

There was a total number of 535 cases of Malaria as against 470 during last year. The majority of cases appeared in Siwa (137 cases) and Dakhla (256). The appearance of Malaria in Siwa is due to Beduins arriving from the West, as only 50 cases appeared among the natives of Siwa with 10 deaths, the remainder were cured after treatment with Quinine. At Dakhla, the water of the irrigation springs form birkas, the filling of which costs large sums of money every year. This year the sum of L.E. 325 was put under the disposal of the Frontiers Administration for digging drains and filling in of birkas for combating Malaria in this Oasis.

Of the other infectious diseases 314 cases of Dysentery, 17 cases of Typhoid and 12 case of Small-pox were reported in all the Frontier Districts during this year as compared with 250 Dysentery, 21 Typhoid and 24 Small-pox cases in the last year.

### *Births and Deaths.*

There were 4,612 births amongst a population of about 97,000 inhabitants or a birth rate of about 47 per thousand and 3,235 deaths or a death rate of about 33 per thousand. Last year, there was a birth rate of about 55 per thousand and a death rate of about 27 per thousand.

Most of the deaths are from chest troubles amongst poor beduins arriving from the West and possessing no means of livelihood. Their children often die from lack of nourishment or from Pneumonia. The ignorance of mothers and the hereditary weakness of children

arising from the weakness of mothers are also responsible for many deaths. In addition to that, rains did not fall in the Oases in 1935 nor in the previous three years. This caused famine amongst the beduins who were forced to emigrate to the Nile valley or to Palestine in search of food.

*Hospitals and Health Offices Out-patient Clinics.*

Some 219,994 patients attended the in and out-patients departments of the Frontier Districts Hospitals and Health Offices during 1935 as against 214,876 in the previous year, this encouraging increase is largely attributed to the beduins applying for treatment in these hospitals or for advice of Medical Officers, having given up their primitive methods of treatment of their sick.

1,228 surgical operations were performed during 1935 as against 1209 operations in 1934.

The combating of endemic and eye diseases remains the subject of this Department's interest. Whenever necessary, specialists are sent to these regions to treat the patients and to give the inhabitants the necessary precautions against diseases.

Propaganda cars are also being sent to these districts to show the beduins films for the purpose of teaching them how to lead a sanitary life and how to treat their patients.

As El Hamman village has become an important commercial centre and its population has increased enormously, it was decided to establish a Health Office there. The necessary credits were applied for in 1936-1937 budget and the Health Office will be opened in the beginning of that year.

In this year's budget a credit of L.E. 1,000 is granted for the erection of a hospital at Baharia Oasis. The preliminary steps have been taken for the gradual completion of the hospital.

The Department also appointed a number of *Tamurgis* to work in villages far off from residence of Medical Officers in order to give the necessary first-aid to the inhabitants.

Almost all the Frontier Districts Medical Officers are now provided with motor cars to help them in combating any outbreaks of infectious diseases and to enable them to inspect distant localities lying within their circumscription and to transfer the patients, whose conditions of health do not permit their transport by any other means, to hospitals or Health Offices clinics for treatment.

These Medical Officers are still being trained on Ophthalmic and Medico-Legal work.

The following table No. 41 gives statistics of births, deaths, vaccinations and infectious diseases in the Frontier Districts in 1935.

TABLE No. 41.—SHOWING BIRTHS, DEATHS, VACCINATIONS AND INFECTIOUS DISEASES CASES RECORDED IN THE FRONTIER DISTRICTS DURING 1935.

| Locality | Population | Births | Deaths | Vaccination |               | Total | Malaria |        | Influenza |        | Dysentery |        | Typhoid |        | Small-pox |        | Whooping Cough |        | Measles |        | Cerebro-Spinal Meningitis |        | Visits of Out-patients | Number of In-patients | Total   | Number of Operations |
|----------|------------|--------|--------|-------------|---------------|-------|---------|--------|-----------|--------|-----------|--------|---------|--------|-----------|--------|----------------|--------|---------|--------|---------------------------|--------|------------------------|-----------------------|---------|----------------------|
|          |            |        |        | Successful  | Un-successful |       | Cases   | Deaths | Cases     | Deaths | Cases     | Deaths | Cases   | Deaths | Cases     | Deaths | Cases          | Deaths | Cases   | Deaths | Cases                     | Deaths |                        |                       |         |                      |
| Amria    | 13,209     | 663    | 376    | 512         | 35            | 547   | —       | —      | —         | —      | 5         | —      | 4       | 1      | —         | —      | —              | —      | 59      | 3      | —                         | —      | 24,025                 | 211                   | 24,236  | 19                   |
| Dabaa    | 4,000      | 195    | 142    | 152         | 25            | 177   | 2       | —      | —         | —      | 1         | —      | —       | —      | —         | —      | —              | —      | 27      | 4      | —                         | —      | 4,058                  | —                     | 4,058   | 17                   |
| Matruh   | 10,347     | 478    | 413    | 415         | 54            | 469   | —       | 24     | 260       | 3      | 128       | —      | —       | —      | 3         | —      | 7              | —      | 142     | 14     | —                         | —      | 19,743                 | 443                   | 20,185  | 224                  |
| Barrani  | 7,609      | 376    | 177    | 352         | 9             | 361   | —       | —      | 1         | —      | —         | —      | 2       | —      | —         | —      | —              | —      | 49      | 1      | —                         | —      | 11,683                 | 154                   | 11,837  | 111                  |
| Sallum   | 4,227      | 123    | 105    | 107         | 29            | 136   | 4       | —      | —         | —      | 6         | —      | 3       | 3      | —         | —      | —              | —      | 1       | —      | —                         | —      | 14,600                 | 136                   | 14,736  | 39                   |
| Siwa     | 2,551      | 135    | 282    | 43          | 57            | 100   | 137     | 10     | 113       | 18     | 16        | 7      | —       | —      | 1         | —      | —              | —      | —       | —      | —                         | —      | 12,037                 | 196                   | 12,233  | 169                  |
| Baharia  | 6,586      | 271    | 221    | 190         | 56            | 246   | 44      | 1      | —         | —      | 19        | 3      | —       | —      | —         | —      | —              | —      | —       | —      | —                         | —      | 5,467                  | —                     | 5,467   | 29                   |
| Kharga   | 8,584      | 498    | 354    | 329         | 116           | 445   | 15      | 1      | 7         | —      | 8         | 1      | —       | —      | —         | —      | —              | —      | 161     | 32     | 2                         | 1      | 40,984                 | 192                   | 41,176  | 248                  |
| Dakhla   | 17,116     | 871    | 678    | 565         | 171           | 736   | 256     | 3      | —         | —      | 21        | 1      | —       | —      | —         | —      | —              | —      | 3       | —      | —                         | —      | 6,996                  | 259                   | 7,255   | 104                  |
| Kantara  | 8,669      | 336    | 152    | 250         | 90            | 340   | 27      | —      | —         | —      | 14        | 1      | 4       | —      | —         | —      | —              | 67     | 8       | 2      | —                         | 24,590 | —                      | 24,590                | 35      |                      |
| Arish    | 7,500      | 412    | 176    | 313         | 54            | 367   | 26      | —      | 3         | —      | 11        | 3      | 3       | —      | 7         | —      | 17             | —      | 9       | 1      | —                         | —      | 24,251                 | 121                   | 24,372  | 80                   |
| Tor      | 1,000      | 32     | 41     | 14          | 14            | 28    | 13      | —      | 20        | —      | 7         | —      | 1       | 1      | 1         | —      | —              | —      | 12      | —      | —                         | —      | 8,160                  | —                     | 8,160   | 47                   |
| Kosseir  | 2,650      | 111    | 60     | 100         | 9             | 109   | 11      | —      | 311       | 1      | 48        | —      | —       | —      | —         | —      | 3              | —      | —       | —      | —                         | —      | 9,680                  | 238                   | 9,918   | 56                   |
| Safaga   | 1,400      | 18     | 11     | 15          | —             | 15    | —       | —      | 23        | 2      | 30        | —      | —       | —      | —         | —      | —              | —      | 16      | 1      | —                         | —      | 5,511                  | 158                   | 5,669   | 50                   |
| Hurgada  | 2,000      | 93     | 47     | 101         | 4             | 105   | —       | —      | —         | —      | —         | —      | —       | —      | —         | —      | —              | —      | —       | —      | —                         | 5,956  | 145                    | 6,101                 | —       |                      |
| TOTAL    | 97,448     | 4,612  | 3,235  | 3,458       | 723           | 4,181 | 535     | 15     | 738       | 45     | 314       | 19     | 17      | 5      | 12        | —      | 265            | 19     | 487     | 58     | 2                         | 1      | 217,741                | 2,253                 | 219,994 | 1,228                |

## CHAPTER V.

### CHILD WELFARE

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Damietta Child Welfare Centre was added in the course of 1935 to the Public Health Department's units after an exchange of correspondence between the Department and Damietta Local Commission about the cession to the Government of the building occupied by this Centre.

During the year, travelling units under the charge of inspectresses were also sent out to villages for combating puerperal fever. *Dayas* were inspected and instructed on the necessity of observing habits of personal cleanliness and keeping their instruments scrupulously clean. Pregnants were advised to follow principles of hygiene during pregnancy.

Whenever there was a unit in the locality, confinements were attended by the inspectress or one of the *Hakimas* in the presence of private *dayas*. Practical lessons were given, under the supervision of the Markaz Medical Officer, to *dayas* and pregnant on the proper methods to be employed in confinements and the sanitary measures to be adopted with regard to infants and children and the necessity of administering medicine to those who fall sick.

The assistance rendered by Markaz Medical Officers enabled these units to take blood specimens from pregnant in small villages and to estimate the extent of the spread of hereditary syphilis therein, which was hitherto ignored.

Through the efforts of these units it was possible to eradicate puerperal fever from the localities visited. The appreciation of their efforts by the inhabitants was so great that deputations, telegrams and petitions were sent to the Department requesting the units to be left in their villages in view of the great benefits they gained from them.

The total number of confinements undertaken by the Child Welfare Centres was 44,327 as against 40,293 during last year. The number of old pregnant who attended at the various centres was 236,412 as against 242,495 in 1934. The number of new pregnant was 51,604 as against 47,129 in 1934.

1,075,104 children attended these centres as against 898,577 during the previous year exclusive of 177,773 sick children who came for treatment in 1935 and 160,148 in 1934.

55,967 blood specimens for Wassermann reaction were examined during the year as against 50,303 during last year. Of the 55,967 specimens 5,471 were found positive.

#### *Dayas* (MIDWIVES) SCHOOLS

The number of schools for *Dayas* during the year remains the same as last year, no new schools being opened during the year. During 1935, the Cairo *Dayas* School of the Kitchner's Memorial Hospital attended 1,743 deliveries, of which 1,703 were at homes and 40 at the school, besides numerous home visits during puerperium. 269 *Dayas* have been authorized to practise midwifery this year. Inspectresses of *Dayas* are continually inspecting the work of *Dayas* throughout the country. Following reports submitted by these inspectresses, steps are taken to withdraw permits of *Dayas* who fail to perform their duties to the satisfaction of the Department. 75 permits were withdrawn from *Dayas* in 1935 and 68 *Dayas* died during the same year.

The Department expects the time will come when new graduates will take the place of the old *Dayas* in Egypt.

#### SEA-SIDE SANATORIA

22 children suffering from tuberculous diseases other than pulmonary tuberculosis, were admitted to the Alexandria Sea-side Sanatorium—during 1935.

There were 25,984 out-patients of whom 15,010 were new and 10,974 old patients. It must be pointed out that the patients usually remain under treatment for long periods sometimes exceeding a year, owing to the nature of their illness.

### FOUNDLINGS HOMES

The following is a statement of the children admitted to the Foundlings Homes during 1935:—

#### A.—Cairo Foundlings Home:

|                                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Foundlings admitted during 1935     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 126 |
| „ remaining from previous year      | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 222 |
| „ died during 1935                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 79  |
| „ adopted                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4   |
| „ remaining up to December 31, 1935 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 265 |
| „ with wet nurses                   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 156 |
| „ at wards                          | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 105 |
| „ at Alexandria Sea-Side Sanatorium | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4   |

#### B.—Alexandria Hospital Foundlings Home:

|                                    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Foundlings admitted during 1935    | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 77  |
| „ remaining from previous year     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 89  |
| „ died during 1935                 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 41  |
| „ adopted                          | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4   |
| „ remaining till December 31, 1935 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 121 |
| „ at wards                         | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 22  |
| „ with wet nurses                  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 99  |

### CHILDREN DISPENSARIES

Two children dispensaries only remain: one at Port Said and the other at Shebin el-Kom.

The following is a statement of the work done in each:—

| Locality             | Number of Patients' Visits |        | Number of Working Days |      |
|----------------------|----------------------------|--------|------------------------|------|
|                      | 1934                       | 1935   | 1934                   | 1935 |
| Port Said ... ..     | 37,862                     | 38,549 | 300                    | 307  |
| Shebin el-Kom ... .. | 52,353                     | 65,941 | 300                    | 297  |

### CHILDREN WARDS IN HOSPITALS

|                                 | Number of Patients' Visits |        |
|---------------------------------|----------------------------|--------|
|                                 | 1934                       | 1935   |
| Alexandria Children Ward ... .. | 14,307                     | 14,975 |
| Benha Children Ward ... ..      | 20,448                     | 25,064 |
| Asyût Children Ward ... ..      | 24,985                     | 24,812 |
| Mit Ghamr Children Ward ... ..  | —                          | 28,269 |



## CHAPTER VI

### SKIN AND VENEREAL DISEASES

#### LOCK HOSPITALS AND SKIN AND VENEREAL DISEASES CLINICS

The number of venereal diseases units remains the same this year as last year.

The following table No. 43 shows the distribution of these units in Governorates and Provinces :—

TABLE NO. 43.

| Governorate or Province | Hospitals | Clinics   |
|-------------------------|-----------|-----------|
| Cairo ... ..            | 1         | 3         |
| Alexandria ... ..       | 1         | 2(a)      |
| Port Said ... ..        | —         | 1         |
| Suez ... ..             | 1(b)      | 1         |
| Gharbia ... ..          | —         | 1         |
| Dakahlia... ..          | —         | 1         |
| Sharqia ... ..          | —         | 1         |
| Behera ... ..           | —         | 1         |
| Menoufia... ..          | —         | 1         |
| Fayoum ... ..           | —         | 1         |
| Beni Suef ... ..        | —         | 1         |
| Minia ... ..            | —         | 1         |
| Asyût ... ..            | —         | 1         |
| Girga ... ..            | —         | 2         |
| <b>TOTAL ... ..</b>     | <b>3</b>  | <b>18</b> |

(a) These two clinics are maintained by Alexandria Municipality.

(b) A separate section annexed to Suez General Hospital.

#### TREATMENT

The number of patients attending these clinics is in constant increase as shown in the following table No. 44 :—

TABLE NO. 44.

| Years              | Number of Units | New Patients | Number of Visits |
|--------------------|-----------------|--------------|------------------|
| <b>1931</b> ... .. | 14              | 30,445       | 259,248          |
| <b>1932</b> ... .. | 16              | 34,219       | 365,192          |
| <b>1933</b> ... .. | 16              | 65,155       | 545,680          |
| <b>1934</b> ... .. | 16              | 77,315       | 610,652          |
| <b>1935</b> ... .. | 16              | 82,381       | 625,442          |

The following table No. 45 shows the total number of patients treated for venereal diseases in the General, District, Village and Lock Hospitals, and in the Skin and Venereal Diseases Clinics during 1935 :—

TABLE No 45.

| Units                                     | In-patients Sections |          |       | Out-patients Sections |          |        |
|-------------------------------------------|----------------------|----------|-------|-----------------------|----------|--------|
|                                           | Gonor-rhoea          | Syphilis | Total | Gonor-rhoea           | Syphilis | Total  |
| General and District Hospitals ...        | 1,103                | 953      | 2,056 | 3,623                 | 11,893   | 15,516 |
| Lock Hospitals ... ..                     | 3,224                | 1,692    | 4,916 | —                     | 15,544   | 15,544 |
| Skin and Venereal Diseases Clinics ... .. | —                    | —        | —     | 19,365                | 17,971   | 37,336 |
| Village Hospitals ... ..                  | —                    | —        | —     | 287                   | 4,586    | 4,873  |
| TOTAL ... ..                              | 4,327                | 2,645    | 6,972 | 23,275                | 49,994   | 73,269 |

Tables Nos. 46, 47, and 48 give detailed statistics on the following :—

- (1) Number of new cases and visits to the Skin and Venereal Diseases Clinics during 1935
- (2) Number of venereal diseases cases treated at the Skin and Venereal Diseases Clinics during 1935.
- (3) Number of patients who completed their course of treatment at the Skin and Venereal Diseases Clinics and those who ceased to attend before completion of their treatment during 1935.

TABLE No. 46.—SHOWING THE NUMBER OF NEW CASES AND VISITS TO THE SKIN AND VENEREAL DISEASES CLINICS DURING THE YEAR 1935.

| Locality of Clinic | NEW CASES      |               |        |                |               |        | NUMBER OF VISITS |               |         |                |               |         | TOTAL     |             |                  |
|--------------------|----------------|---------------|--------|----------------|---------------|--------|------------------|---------------|---------|----------------|---------------|---------|-----------|-------------|------------------|
|                    | Male           |               |        | Female         |               |        | Male             |               |         | Female         |               |         | New Cases | Old Classes | Number of Visits |
|                    | Under 16 Years |               | Total  | Under 16 Years |               | Total  | Under 16 Years   |               | Total   | Under 16 Years |               | Total   |           |             |                  |
|                    | Under 16 Years | Over 16 Years | Total  | Under 16 Years | Over 16 Years | Total  | Under 16 Years   | Over 16 Years | Total   | Under 16 Years | Over 16 Years | Total   |           |             |                  |
| Saptieh ...        | 1,398          | 6,471         | 7,869  | 2,688          | 5,338         | 8,026  | 11,388           | 33,648        | 45,036  | 15,468         | 26,931        | 42,399  | 15,895    | 87,435      | 103,330          |
| Gamalieh ...       | 428            | 2,453         | 2,881  | 597            | 2,053         | 2,650  | 4,411            | 14,530        | 18,941  | 4,270          | 14,318        | 18,588  | 5,531     | 37,529      | 43,060           |
| Sayeda Zeinab ...  | 498            | 3,171         | 3,669  | 617            | 3,524         | 4,141  | 5,450            | 30,562        | 36,012  | 6,022          | 30,446        | 36,468  | 7,810     | 72,480      | 80,290           |
| Zagazig ...        | 1,040          | 1,668         | 2,708  | 934            | 1,309         | 2,243  | 1,244            | 8,313         | 9,557   | 1,281          | 9,239         | 10,520  | 4,951     | 20,077      | 25,028           |
| Suez... ..         | 134            | 679           | 813    | 195            | 610           | 805    | 626              | 9,118         | 9,744   | 1,800          | 13,420        | 15,220  | 1,618     | 24,964      | 26,582           |
| Mansura ...        | 188            | 934           | 1,122  | 159            | 705           | 864    | 2,246            | 12,368        | 14,614  | 3,096          | 13,871        | 16,967  | 1,986     | 31,581      | 33,567           |
| Tanta ...          | 475            | 2,081         | 2,556  | 281            | 2,878         | 3,159  | 3,515            | 18,037        | 21,552  | 2,551          | 26,360        | 28,911  | 5,715     | 50,463      | 56,198           |
| Port-Said ...      | 321            | 1,331         | 1,652  | 295            | 1,455         | 1,750  | 1,792            | 10,219        | 12,011  | 1,836          | 15,514        | 17,344  | 3,402     | 29,355      | 32,757           |
| Damanhur ...       | 1,259          | 1,651         | 2,910  | 1,295          | 1,216         | 2,511  | 1,200            | 8,506         | 9,706   | 1,237          | 5,908         | 7,145   | 5,421     | 16,851      | 22,272           |
| Shebin el-Kom ...  | 714            | 1,828         | 2,542  | 917            | 1,449         | 2,366  | 667              | 7,425         | 8,092   | 799            | 6,820         | 7,619   | 4,908     | 15,711      | 20,619           |
| Fayoum ...         | 829            | 1,881         | 2,710  | 754            | 1,779         | 2,533  | 3,395            | 5,789         | 9,184   | 3,870          | 8,997         | 12,867  | 5,243     | 22,051      | 27,294           |
| Sohag ...          | 368            | 1,349         | 1,717  | 449            | 1,622         | 2,071  | 1,397            | 11,503        | 12,900  | 2,536          | 19,529        | 22,065  | 3,788     | 34,965      | 38,753           |
| Girga ...          | 260            | 643           | 903    | 315            | 1,084         | 1,399  | 1,243            | 6,652         | 7,895   | 3,416          | 1,003         | 13,419  | 2,302     | 21,314      | 23,616           |
| Asyût ...          | 902            | 2,049         | 2,751  | 819            | 1,517         | 2,336  | 2,442            | 14,261        | 16,703  | 2,501          | 15,713        | 18,214  | 5,287     | 34,917      | 40,204           |
| Minia ...          | 1,311          | 1,628         | 2,939  | 1,424          | 2,001         | 2,425  | 913              | 5,963         | 6,876   | 1,022          | 10,826        | 11,848  | 6,364     | 18,724      | 25,088           |
| Beni Suef ...      | 299            | 1,039         | 1,338  | 279            | 543           | 822    | 4,126            | 12,837        | 16,963  | 2,576          | 5,105         | 7,681   | 2,160     | 24,644      | 26,804           |
| GRAND TOTAL ...    | 10,424         | 30,856        | 41,280 | 12,018         | 29,083        | 41,101 | 46,055           | 209,731       | 255,786 | 54,275         | 233,000       | 287,275 | 82,381    | 543,061     | 625,442          |

TABLE NO. 47.—SHOWING NUMBER OF VENEREAL DISEASES CASES

| Clinic               | GONORRHOEA |        |         |        |       |        |         |        |           |        |
|----------------------|------------|--------|---------|--------|-------|--------|---------|--------|-----------|--------|
|                      | Acute      |        | Chronic |        | Total |        | Primary |        | Secondary |        |
|                      | Male       | Female | Male    | Female | Male  | Female | Male    | Female | Male      | Female |
| Saptieh ... ..       | 2,008      | 337    | 546     | 2,667  | 2,554 | 3,004  | 821     | 100    | 363       | 119    |
| Gamalieh... ..       | 824        | 462    | 278     | 272    | 1,102 | 734    | 109     | 9      | 73        | 5      |
| Sayeda Zenab ... ..  | 1,444      | 621    | 319     | 2,348  | 1,763 | 2,969  | 137     | 18     | 152       | 100    |
| Zagazig ... ..       | 131        | 46     | 14      | 18     | 145   | 64     | 107     | 5      | 64        | 79     |
| Suez ... ..          | 159        | 8      | 31      | 395    | 190   | 403    | 88      | 8      | 34        | 10     |
| Mansoura ... ..      | 190        | 11     | 125     | 299    | 315   | 310    | 250     | 2      | 63        | 4      |
| Tanta ... ..         | 386        | 62     | 132     | 1,650  | 518   | 1,712  | 272     | 22     | 81        | 5      |
| Port Said ... ..     | 377        | 95     | 46      | 519    | 423   | 614    | 119     | 18     | 78        | 5      |
| Damanhour ... ..     | 82         | 18     | 28      | 15     | 110   | 33     | 60      | 6      | 50        | 2      |
| Shebin el Kom ... .. | 116        | 21     | 27      | 130    | 143   | 151    | 80      | 4      | 111       | 7      |
| Fayoum ... ..        | 129        | 163    | 72      | 141    | 201   | 304    | 75      | 15     | 114       | 12     |
| Souhag ... ..        | 112        | 39     | 44      | 104    | 156   | 143    | 53      | 19     | 188       | 19     |
| Girga ... ..         | 52         | 14     | 7       | 18     | 59    | 32     | 26      | 3      | 350       | 37     |
| Asyût ... ..         | 175        | 79     | 50      | 111    | 225   | 190    | 134     | 8      | 236       | 14     |
| Minia ... ..         | 154        | 130    | 27      | 151    | 181   | 281    | 23      | 3      | 29        | 20     |
| Beni Suef ... ..     | 123        | 104    | 79      | 30     | 202   | 134    | 111     | 5      | 57        | 4      |
| TOTAL ... ..         | 6,462      | 2,210  | 1,825   | 8,868  | 8,287 | 11,078 | 2,465   | 245    | 2,043     | 1,528  |

TABLE NO. 48.—SHOWING NUMBER OF PATIENTS WHO COMPLETED THEIR COURSE OF TREATMENT AT THE VENEREAL CLINICS

| Clinic               | PATIENTS COMPLETED TREATMENT |        |        |          |        |       |                |        |        |             |
|----------------------|------------------------------|--------|--------|----------|--------|-------|----------------|--------|--------|-------------|
|                      | Gonorrhoea                   |        |        | Syphilis |        |       | Other Diseases |        |        | Grand Total |
|                      | Male                         | Female | Total  | Male     | Female | Total | Male           | Female | Total  |             |
| Saptieh ... ..       | 1,055                        | 1,322  | 2,377  | 734      | 296    | 1,030 | 1,992          | 2,642  | 4,634  | 8,041       |
| Gamalieh... ..       | 705                          | 734    | 1,439  | 74       | 78     | 152   | 550            | 456    | 1,006  | 2,597       |
| Sayeda Zenab ... ..  | 1,228                        | 1,459  | 2,687  | 703      | 749    | 1,452 | 593            | 423    | 1,016  | 5,155       |
| Zagazig ... ..       | 46                           | 27     | 73     | 6        | 1      | 7     | 1,095          | 1,840  | 2,935  | 3,015       |
| Suez ... ..          | 190                          | 240    | 430    | 120      | 130    | 250   | 300            | 220    | 520    | 1,200       |
| Mansoura ... ..      | 196                          | 232    | 428    | 490      | 353    | 843   | 53             | 31     | 84     | 1,352       |
| Tanta ... ..         | 314                          | 568    | 882    | 512      | 598    | 1,110 | 815            | 307    | 1,122  | 3,114       |
| Port Said ... ..     | 387                          | 525    | 912    | 65       | 80     | 145   | 820            | 760    | 1,580  | 2,637       |
| Damanhour ... ..     | 85                           | 21     | 106    | 157      | 107    | 264   | 2,023          | 1,851  | 3,874  | 4,244       |
| Shebin el Kom ... .. | 111                          | 127    | 238    | 221      | 185    | 406   | 1,807          | 1,663  | 3,470  | 4,114       |
| Fayoum ... ..        | 72                           | 107    | 179    | 113      | 156    | 269   | 197            | 210    | 407    | 855         |
| Souhag ... ..        | 76                           | 60     | 136    | 183      | 362    | 545   | 603            | 361    | 964    | 1,645       |
| Girga ... ..         | 17                           | 12     | 29     | 109      | 179    | 288   | 50             | 65     | 115    | 432         |
| Asyût ... ..         | 31                           | 52     | 83     | 214      | 275    | 489   | 1,632          | 1,175  | 2,807  | 3,379       |
| Minia ... ..         | 29                           | 79     | 108    | 26       | 23     | 49    | 2,517          | 2,823  | 534    | 549         |
| Beni Suef ... ..     | 47                           | 16     | 63     | 18       | 13     | 31    | 211            | 166    | 377    | 471         |
| TOTAL ... ..         | 4,589                        | 5,581  | 10,170 | 3,745    | 3,585  | 7,330 | 15,258         | 14,993 | 30,251 | 47,751      |

ATED AT THE SKIN AND VENEREAL DISEASES CLINICS DURING 1935.

| SYPHILIS |        |        |        |            |        |         |        |       |        | OTHER DISEASES |        |                         |        |        |        |
|----------|--------|--------|--------|------------|--------|---------|--------|-------|--------|----------------|--------|-------------------------|--------|--------|--------|
| Tertiary |        | Latent |        | Hereditary |        | Nervous |        | Total |        | Chaneroid      |        | Other Venereal Diseases |        | Total  |        |
| Male     | Female | Male   | Female | Male       | Female | Male    | Female | Male  | Female | Male           | Female | Male                    | Female | Male   | Female |
| 71       | 18     | 472    | 498    | 42         | 73     | 8       | 4      | 1,777 | 805    | 439            | 92     | 3,099                   | 4,125  | 3,538  | 4,217  |
| 16       | 9      | 67     | 71     | 11         | 6      | 5       | 4      | 281   | 150    | 174            | 9      | 1,324                   | 1,757  | 1,498  | 1,766  |
| 81       | 61     | 356    | 270    | 82         | 165    | 12      | 7      | 820   | 627    | 257            | 11     | 832                     | 634    | 1,089  | 645    |
| 59       | 58     | 38     | 136    | 18         | 16     | 9       | 1      | 295   | 295    | 27             | 1      | 2,121                   | 1,883  | 2,148  | 1,884  |
| 32       | 32     | 61     | 88     | 38         | 41     | 2       | 2      | 255   | 187    | 52             | 3      | 316                     | 212    | 368    | 215    |
| 71       | 62     | 171    | 269    | 176        | 152    | 5       | 1      | 736   | 530    | 11             | —      | 53                      | 31     | 64     | 31     |
| 53       | 36     | 322    | 780    | 86         | 62     | —       | —      | 914   | 954    | 125            | 17     | 999                     | 476    | 1,124  | 493    |
| 49       | 57     | 58     | 137    | 86         | 107    | 2       | —      | 392   | 376    | 17             | —      | 820                     | 760    | 837    | 760    |
| 28       | 29     | 18     | 40     | 13         | 16     | 5       | 1      | 174   | 120    | 81             | 7      | 2,336                   | 2,231  | 2,417  | 2,238  |
| 79       | 32     | 38     | 65     | 11         | 23     | —       | —      | 319   | 198    | —              | —      | 2,079                   | 2,017  | 2,079  | 2,017  |
| 69       | 101    | 29     | 87     | 75         | 56     | —       | —      | 362   | 381    | —              | —      | 2,147                   | 1,848  | 2,147  | 1,848  |
| 40       | 314    | 308    | 837    | 86         | 157    | 18      | 5      | 893   | 1,522  | 33             | 1      | 635                     | 405    | 668    | 406    |
| 41       | 32     | 230    | 638    | 248        | 345    | 8       | 4      | 903   | 1,399  | 3              | —      | 174                     | 171    | 177    | 171    |
| 75       | 69     | 329    | 554    | 14         | 20     | 11      | 1      | 799   | 799    | 191            | 1      | 1,736                   | 1,346  | 1,927  | 1,347  |
| 5        | 9      | 54     | 99     | 31         | 34     | 4       | —      | 146   | 165    | 8              | —      | 2,521                   | 2,943  | 2,529  | 2,943  |
| 15       | 22     | 31     | 32     | 26         | 45     | 5       | —      | 245   | 152    | 17             | —      | 116                     | 7      | 133    | 7      |
| 34       | 941    | 2582   | 4,601  | 1043       | 1,318  | 94      | 30     | 9,311 | 8,660  | 1,435          | 142    | 21,308                  | 20,846 | 22,743 | 20,988 |

ES CLINICS AND THOSE WHO CEASED TO ATTEND BEFORE COMPLETION OF THEIR TREATMENT DURING 1935.

| PATIENTS WHO CEASED TO ATTEND BEFORE COMPLETION OF THEIR TREATMENT |                |      |            |        |       |          |        |       |                |        |       |             |            |          |                |
|--------------------------------------------------------------------|----------------|------|------------|--------|-------|----------|--------|-------|----------------|--------|-------|-------------|------------|----------|----------------|
| Percentage                                                         |                |      | Gonorrhoea |        |       | Syphilis |        |       | Other Diseases |        |       | Grand Total | Percentage |          |                |
| Syphilis                                                           | Other diseases |      | Male       | Female | Total | Male     | Female | Total | Male           | Female | Total |             | Gonorrhoea | Syphilis | Other diseases |
| 7                                                                  | 40             | 60   | 1499       | 1,682  | 3,181 | 1043     | 509    | 1,552 | 1546           | 1,575  | 3,121 | 7,854       | 57.3       | 60       | 40             |
| 4                                                                  | 6              | 38.5 | 156        | 184    | 340   | 256      | 114    | 370   | 98             | 195    | 293   | 1,003       | 33.9       | 36.9     | 29.2           |
| 5                                                                  | 54             | 58   | 295        | 280    | 575   | 212      | 275    | 487   | 70             | 23     | 93    | 1,155       | 14         | 18       | 5              |
| 8                                                                  | 1.4            | 73.3 | 89         | 35     | 124   | 32       | 27     | 59    | 460            | 590    | 1,050 | 1,233       | 50.7       | 12       | 24             |
|                                                                    | 22             | 60   | 270        | 410    | 680   | 200      | 205    | 405   | 400            | 300    | 700   | 1,785       | 20         | 18       | 15             |
|                                                                    | 62             | 7    | 119        | 78     | 197   | 246      | 177    | 423   | —              | —      | —     | 620         | 32         | 68       | —              |
| 3                                                                  | 35.6           | 36   | 204        | 1,144  | 1,348 | 402      | 356    | 758   | 309            | 186    | 495   | 2,601       | 51.8       | 29.1     | 19             |
| 6                                                                  | 5.5            | 59.9 | 70         | 105    | 175   | 252      | 385    | 637   | —              | —      | —     | 812         | 21.6       | 78.4     | —              |
|                                                                    | 89             | 83   | 25         | 12     | 37    | 27       | 13     | 40    | 434            | 487    | 921   | 998         | 27         | 11       | 27             |
|                                                                    | 30             | 83   | 32         | 24     | 56    | 98       | 13     | 111   | 272            | 354    | 626   | 793         | 19         | 21       | 15             |
|                                                                    | 31             | 48   | 133        | 205    | 338   | 215      | 284    | 499   | 275            | 301    | 576   | 1,413       | 24         | 34       | 42             |
|                                                                    | 22.5           | 92.5 | 11         | 8      | 19    | 251      | 504    | 755   | 32             | 44     | 76    | 850         | 6.3        | 31.2     | 7.3            |
|                                                                    | 12             | 33   | 14         | 2      | 16    | 165      | 197    | 362   | 19             | 8      | 27    | 405         | 17.5       | 15.5     | 8              |
|                                                                    | 14.5           | 83.1 | 194        | 138    | 332   | 585      | 524    | 1,109 | 295            | 172    | 467   | 1,908       | 17.5       | 58.2     | 24.4           |
|                                                                    | 8              | 97.3 | 165        | 244    | 409   | 126      | 145    | 271   | 4              | 120    | 124   | 804         | 50.8       | 33.7     | 15.5           |
|                                                                    | 8              | 26.4 | 68         | 46     | 114   | 122      | 76     | 198   | 349            | 150    | 499   | 811         | 34         | 50       | 35             |
|                                                                    |                |      | 3344       | 4,597  | 7,941 | 4232     | 3,804  | 8,036 | 4563           | 4,505  | 9,068 | 25,045      |            |          |                |

## CHAPTER VII.

### GENERAL TREATMENT INSTITUTIONS

#### NEW UNITS.

It was anticipated that the State Buildings Department would hand over to this Department during the year 1935 the 4 District Hospitals and 10 Village Hospitals which the said Department began to construct in the previous year, but the construction was not completed.

Meanwhile constructional and renewal operations are proceeding in other hospitals, *viz.* the New Tanta Hospital is still being constructed ; an X-Ray Section is being constructed at each of Suez and Asyût Hospitals ; the Dental Clinic at Luxor Hospital has been equipped and will be opened for treatment early next year.

The units maintained by the Department up till December 1935 are shown in the following table No. 49

TABLE No.49

| Year               | Hospitals at Capitals<br>of Provinces and<br>Governorates | Hospitals in chief<br>towns of districts | Village Hospitals | Out-patient Clinics |
|--------------------|-----------------------------------------------------------|------------------------------------------|-------------------|---------------------|
| <b>1926</b> ... .. | 18                                                        | 7                                        | —                 | 1                   |
| <b>1927</b> ... .. | 18                                                        | 8                                        | —                 | —                   |
| <b>1928</b> ... .. | 18                                                        | 9                                        | —                 | —                   |
| <b>1929</b> ... .. | 18                                                        | 10                                       | 5                 | —                   |
| <b>1930</b> ... .. | 18                                                        | 25                                       | 27                | —                   |
| <b>1931</b> ... .. | 19                                                        | 38                                       | 34                | —                   |
| <b>1932</b> ... .. | 19                                                        | 43                                       | 46                | —                   |
| <b>1933</b> ... .. | 19                                                        | 44                                       | 49                | —                   |
| <b>1934</b> ... .. | 19                                                        | 45                                       | 50                | 1                   |
| <b>1935</b> ... .. | 19                                                        | 45                                       | 50                | 3                   |

#### *Number of beds.*

TABLE No.50

| Year               | Number of beds | Remarks                                                 |
|--------------------|----------------|---------------------------------------------------------|
| <b>1926</b> ... .. | 3,656          |                                                         |
| <b>1927</b> ... .. | 3,755          |                                                         |
| <b>1928</b> ... .. | 3,979          |                                                         |
| <b>1929</b> ... .. | 4,120          |                                                         |
| <b>1930</b> ... .. | 4,695          |                                                         |
| <b>1931</b> ... .. | 5,351          |                                                         |
| <b>1932</b> ... .. | 6,077          |                                                         |
| <b>1933</b> ... .. | 6,482          |                                                         |
| <b>1934</b> ... .. | *5,309         | Kasr el Aini Hospital was detached from the Department. |
| <b>1935</b> ... .. | 5,852          |                                                         |

\* This figure includes 423 beds at Kabbari and Hod el Marsoud Lock Hospitals.

# TREATMENT

The following table No. 51 shows the number of in and out-patients treated at the various hospitals and clinics during the last five years :—

TABLE No. 51.

|                                                       | 1931      | 1932      | 1933      | 1934      | 1935      |
|-------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| In-patients ... ..                                    | 95,765    | 110,626   | 116,591   | 107,005   | 117,729   |
| Out-patients ... ..                                   | 1,649,526 | 2,058,404 | 2,333,105 | 2,316,480 | 2,414,963 |
| Number of attendances to out-patients sections ... .. | 3,623,050 | 4,617,699 | 5,214,443 | 4,711,137 | 4,944,428 |
| Patients treated in village hospitals ...             | 376,391   | 542,830   | 669,290   | 817,022   | 935,460   |
| Attendances to village hospitals ... ..               | 783,501   | 1,130,850 | 1,364,887 | 1,448,314 | 1,952,803 |

The following table No. 52 gives details of the hospitals and patients treated therein during 1935.

TABLE No. 52.—SHOWING THE HOSPITALS AND PATIENTS TREATED THEREIN DURING 1935

| Name of Hospital | Distribution of Beds |           |                   |                    |          |             |                         |                |            |                         | In-patients                |          |              |           | Out-patients |               |
|------------------|----------------------|-----------|-------------------|--------------------|----------|-------------|-------------------------|----------------|------------|-------------------------|----------------------------|----------|--------------|-----------|--------------|---------------|
|                  | 1st Class            | 2nd Class | 3rd Class Special | 3rd Class Ordinary | Children | Oph. Branch | Total Beds for Patients | Beds for Staff | Total Beds | Treated during the Year | Discharged during the Year |          |              | Remaining | New Cases    | No. of Visits |
|                  |                      |           |                   |                    |          |             |                         |                |            |                         | Cured                      | Relieved | Not Improved |           |              |               |
| King's ...       | 10                   | —         | —                 | 221                | 17       | —           | 248                     | 38             | 286        | 4,028                   | 2,331                      | 1,207    | 260          | 119       | 91,669       | 210,137       |
| Demerdash ...    | 3                    | 12        | —                 | 89                 | —        | 16          | 120                     | 40             | 160        | 2,284                   | 1,605                      | 417      | 125          | 54        | 45,627       | 153,002       |
| Alexandria ...   | 2                    | 9         | 14                | 720                | 50       | 54          | 849                     | 56             | 905        | 20,012                  | 6,545                      | 8,711    | 2,975        | 1,176     | 191,959      | 706,376       |
| Port-Said ...    | 4                    | 6         | 6                 | 184                | 21       | —           | 221                     | 14             | 235        | 4,221                   | 2,275                      | 1,136    | 469          | 179       | 56,920       | 104,134       |
| Suez ...         | 5                    | 9         | —                 | 161                | 3        | 25          | 203                     | 10             | 213        | 4,164                   | 2,878                      | 966      | 85           | 117       | 33,436       | 59,654        |
| Tanta ...        | —                    | 2         | —                 | 183                | 4        | —           | 189                     | 4              | 193        | 7,853                   | 1,925                      | 5,135    | 311          | 290       | 63,122       | 86,471        |
| Mansoura ...     | —                    | 10        | —                 | 200                | —        | —           | 210                     | 8              | 218        | 4,187                   | 2,898                      | 899      | 29           | 202       | 74,131       | 114,192       |
| Zagazig...       | 1                    | 3         | —                 | 173                | 4        | —           | 181                     | 14             | 195        | 5,111                   | 2,320                      | 2,155    | 314          | 186       | 74,617       | 121,206       |
| Damanbour ...    | —                    | 2         | —                 | 108                | 2        | —           | 112                     | 2              | 114        | 1,465                   | 849                        | 403      | 18           | 134       | 48,462       | 94,022        |
| Damietta ...     | 2                    | 2         | —                 | 88                 | —        | 35          | 127                     | 14             | 141        | 2,227                   | 1,541                      | 506      | 32           | 69        | 40,628       | 79,734        |
| Benha ...        | —                    | —         | —                 | 100                | 14       | —           | 114                     | 1              | 115        | 3,236                   | 1,790                      | 1,257    | 32           | 95        | 71,323       | 97,557        |
| Shebin el-Kom    | —                    | 2         | —                 | 88                 | —        | —           | 90                      | 1              | 91         | 2,695                   | 1,170                      | 1,302    | 12           | 150       | 32,450       | 75,992        |
| Qaliub ...       | 1                    | 2         | —                 | 72                 | —        | —           | 75                      | 3              | 78         | 1,415                   | 780                        | 478      | 22           | 72        | 48,626       | 99,658        |
| Mit Ghamr ...    | —                    | —         | —                 | 43                 | —        | 12          | 55                      | 6              | 61         | 1,399                   | 912                        | 316      | 38           | 96        | 67,650       | 134,441       |
| Tayeba ...       | —                    | —         | —                 | 32                 | —        | 8           | 40                      | 2              | 42         | 995                     | 722                        | 215      | —            | 28        | 33,090       | 48,630        |
| Beni Suef ...    | —                    | 1         | —                 | 99                 | —        | —           | 100                     | 1              | 101        | 1,936                   | 1,415                      | 257      | 35           | 161       | 35,683       | 74,798        |
| Fayoum ...       | 1                    | 2         | —                 | 98                 | —        | —           | 101                     | 1              | 102        | 1,986                   | 1,581                      | 163      | 45           | 143       | 67,508       | 110,526       |
| Minia ...        | 1                    | 1         | —                 | 81                 | 2        | —           | 85                      | 2              | 87         | 2,099                   | 1,725                      | 210      | 32           | 48        | 49,825       | 102,724       |
| Maghagha ...     | —                    | —         | —                 | —                  | —        | —           | —                       | —              | —          | —                       | —                          | —        | —            | —         | 34,556       | 68,264        |
| Fekriya ...      | —                    | —         | —                 | 22                 | —        | 13          | 35                      | 3              | 38         | 921                     | 696                        | 166      | 6            | 29        | 34,101       | 85,423        |
| Asyût ...        | —                    | 14        | —                 | 166                | 7        | —           | 187                     | 5              | 192        | 4,266                   | 2,902                      | 702      | 101          | 373       | 62,669       | 98,107        |
| Mallawy ...      | —                    | —         | —                 | 12                 | —        | 11          | 23                      | 2              | 25         | 861                     | 666                        | 109      | 8            | 55        | 36,868       | 67,710        |
| Sohag ...        | —                    | 2         | —                 | 93                 | —        | —           | 95                      | 6              | 101        | 1,683                   | 1,026                      | 440      | 55           | 93        | 41,369       | 72,569        |
| Tahta ...        | —                    | —         | —                 | 26                 | —        | —           | 26                      | —              | 26         | 936                     | 476                        | 360      | 9            | 71        | 45,128       | 74,941        |
| Kena ...         | —                    | 1         | —                 | 90                 | —        | —           | 91                      | 2              | 93         | 1,672                   | 1,185                      | 341      | 55           | 50        | 32,361       | 49,576        |
| Esna ...         | —                    | —         | —                 | 51                 | —        | 24          | 75                      | 8              | 83         | 1,675                   | 1,265                      | 302      | 32           | 46        | 24,819       | 44,048        |
| Luxor ...        | 6                    | 6         | —                 | 38                 | —        | 25          | 75                      | 13             | 88         | 1,637                   | 555                        | 970      | 17           | 45        | 25,659       | 51,709        |
| Aswân ...        | 1                    | 2         | —                 | 45                 | —        | 23          | 71                      | 2              | 73         | 1,331                   | 971                        | 260      | 29           | 31        | 18,307       | 40,296        |
| Mahalla El Kobra | —                    | —         | —                 | 58                 | —        | —           | 58                      | 8              | 66         | 1,455                   | 971                        | 343      | 21           | 93        | 48,199       | 84,502        |
| Desouk ...       | —                    | —         | —                 | 26                 | —        | 12          | 38                      | 2              | 40         | 1                       | 1,178                      | 59       | 4            | 40        | 33,470       | 66,017        |
| Sherbin ...      | —                    | —         | —                 | 24                 | —        | 8           | 32                      | 3              | 35         | 949                     | 444                        | 447      | 2            | 31        | 27,076       | 47,147        |
| Faraskour ...    | —                    | —         | —                 | 32                 | —        | —           | 32                      | 3              | 35         | 831                     | 416                        | 261      | 79           | 48        | 24,842       | 48,649        |

|                       |  |  |  |  |  |   |   |   |    |    |   |    |       |       |     |    |     |    |        |        |
|-----------------------|--|--|--|--|--|---|---|---|----|----|---|----|-------|-------|-----|----|-----|----|--------|--------|
| Sirbellawein... ..    |  |  |  |  |  | — | — | — | 8  | 34 | 9 | 43 | 1,415 | 1,183 | 160 | 6  | 53  | 13 | 29,248 | 47,478 |
| Mahzala... ..         |  |  |  |  |  | — | — | — | —  | 34 | 2 | 36 | 911   | 611   | 222 | 28 | 30  | 20 | 24,248 | 41,954 |
| Belbeis ... ..        |  |  |  |  |  | — | — | — | 8  | 31 | 8 | 39 | 677   | 499   | 115 | 11 | 29  | 23 | 17,775 | 42,878 |
| Facus ... ..          |  |  |  |  |  | — | — | — | 12 | 36 | 3 | 39 | 1,381 | 1,066 | 198 | 20 | 69  | 28 | 29,549 | 53,853 |
| Minia el-Kamh ...     |  |  |  |  |  | — | — | — | —  | 30 | 5 | 35 | 965   | 628   | 250 | 18 | 35  | 34 | 28,859 | 52,876 |
| Tala ... ..           |  |  |  |  |  | — | — | — | 9  | 31 | 7 | 38 | 1,253 | 690   | 486 | 2  | 54  | 21 | 31,639 | 57,472 |
| Ashmoun ... ..        |  |  |  |  |  | — | — | — | 8  | 33 | 3 | 36 | 933   | 717   | 136 | 9  | 39  | 32 | 26,203 | 71,217 |
| Zawiet el-Naura ...   |  |  |  |  |  | — | — | — | —  | 32 | 4 | 36 | 685   | 517   | 97  | 28 | 27  | 16 | 18,648 | 35,983 |
| Shebin el-Kanater ... |  |  |  |  |  | — | — | — | 8  | 35 | 9 | 44 | 842   | 498   | 257 | 5  | -57 | 25 | 51,675 | 84,670 |
| Delingat ... ..       |  |  |  |  |  | — | — | — | 12 | 37 | 3 | 40 | 1,019 | 709   | 214 | 31 | 39  | 26 | 27,656 | 64,328 |
| Kafir el-Dawar ...    |  |  |  |  |  | — | — | — | —  | 30 | 6 | 36 | 739   | 433   | 233 | 22 | 45  | 6  | 20,925 | 56,798 |
| Rasheed ... ..        |  |  |  |  |  | — | — | — | 12 | 39 | 7 | 46 | 770   | 506   | 148 | 73 | 26  | 17 | 31,784 | 66,653 |
| Shubrakteet... ..     |  |  |  |  |  | — | — | — | —  | 30 | 3 | 33 | 844   | 625   | 148 | 6  | 41  | 24 | 20,178 | 39,602 |
| Edfina ... ..         |  |  |  |  |  | — | — | — | —  | 36 | 6 | 42 | 791   | 588   | 146 | 7  | 32  | 18 | 17,585 | 36,947 |
| Kom Hamada ... ..     |  |  |  |  |  | — | — | — | 8  | 36 | 8 | 44 | 810   | 678   | 60  | 15 | 39  | 18 | 35,502 | 57,732 |
| El-Saff ... ..        |  |  |  |  |  | — | — | — | 8  | 32 | 4 | 36 | 1,046 | 852   | 123 | 10 | 40  | 21 | 25,146 | 42,412 |
| Etsa ... ..           |  |  |  |  |  | — | — | — | —  | 33 | 3 | 36 | 669   | 479   | 120 | 22 | 31  | 17 | 16,889 | 41,690 |
| El-Wasta ... ..       |  |  |  |  |  | — | — | — | 12 | 35 | 8 | 43 | 676   | 387   | 221 | 1  | 37  | 30 | 25,015 | 50,350 |
| Beni Mazar ... ..     |  |  |  |  |  | — | — | — | —  | 32 | 3 | 35 | 839   | 590   | 93  | 24 | 88  | 44 | 21,670 | 39,816 |
| Fashn ... ..          |  |  |  |  |  | — | — | — | 8  | 30 | 6 | 36 | 621   | 342   | 170 | 39 | 49  | 21 | 20,275 | 38,502 |
| Samalout ... ..       |  |  |  |  |  | — | — | — | —  | 43 | 4 | 47 | 847   | 416   | 350 | 8  | 44  | 29 | 20,449 | 49,800 |
| Deirut ... ..         |  |  |  |  |  | — | — | — | 12 | 42 | 9 | 51 | 851   | 595   | 139 | 5  | 86  | 26 | 36,620 | 54,649 |
| Badari ... ..         |  |  |  |  |  | — | — | — | —  | 33 | 3 | 36 | 956   | 720   | 151 | 14 | 38  | 33 | 29,306 | 53,789 |
| Sabil Selim ... ..    |  |  |  |  |  | — | — | — | —  | 32 | 3 | 35 | 557   | 320   | 185 | 22 | 18  | 12 | 29,289 | 56,799 |
| Akhmim ... ..         |  |  |  |  |  | — | — | — | 3  | 32 | 3 | 35 | 513   | 363   | 88  | 1  | 40  | 21 | 22,866 | 44,541 |
| Baliana ... ..        |  |  |  |  |  | — | — | — | 8  | 30 | 6 | 36 | 1,255 | 953   | 168 | 68 | 38  | 28 | 33,089 | 67,303 |
| Girga ... ..          |  |  |  |  |  | — | — | — | 12 | 37 | 3 | 40 | 1,487 | 1,279 | 82  | 21 | 66  | 39 | 35,837 | 67,165 |
| Deshna ... ..         |  |  |  |  |  | — | — | — | —  | 31 | 6 | 37 | 722   | 466   | 160 | 25 | 48  | 23 | 24,699 | 51,241 |

# OPERATIONS AND X-RAYS EXAMINATIONS

The following table No. 53 shows the number of operations and X-rays examinations performed in the hospitals during the last five years :—

TABLE No. 53.

| Year        | In-patients<br>Operations | Out-patients<br>Operations | Total   | X-rays<br>Examinations |
|-------------|---------------------------|----------------------------|---------|------------------------|
| 1931 ... .. | 36,542                    | 20,608                     | 57,150  | 25,150                 |
| 1932 ... .. | 44,839                    | 35,792                     | 80,631  | 50,434                 |
| 1933 ... .. | 48,911                    | 36,134                     | 85,045  | 72,376                 |
| 1934 ... .. | 34,132                    | 49,795                     | 84,027  | 25,299                 |
| 1935 ... .. | 45,791                    | 59,132                     | 104,923 | 32,509                 |

# DEATHS

The following table No. 54 shows the number of in-patients treated during the last five years and the number of deaths in each year :—

TABLE No. 54.

| Year        | Number of In-patients | Number of Deaths | Percentage |
|-------------|-----------------------|------------------|------------|
| 1931 ... .. | 95,765                | 5,473            | 5·70       |
| 1932 ... .. | 110,626               | 6,148            | 5·55       |
| 1933 ... .. | 116,591               | 6,453            | 5·53       |
| 1934 ... .. | 107,005               | 5,455            | 5·09       |
| 1935 ... .. | 117,729               | 5,605            | 4·89       |

# EXPENDITURE

The upkeep of General Hospitals and District Hospitals during this year amounted to L.E. 330,470. The following table No. 55 shows the total expenditure during the last five years and the average cost of upkeep of one patient :—

TABLE No. 55.

|                                                                     | 1931             | 1932             | 1933             | 1934             | 1935             |
|---------------------------------------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Number of days of treatment ... ..                                  | 1,426,294        | 1,595,279        | 1,775,194        | 1,475,523        | 1,759,002        |
| Total Expenditure ... ..                                            | L.E.<br>326,336  | L.E.<br>355,025  | L.E.<br>393,501  | L.E.<br>309,622  | L.E.<br>330,470  |
| Cost of upkeep of one patient per diem...                           | L.E. M.<br>— 228 | L.E. M.<br>— 222 | L.E. M.<br>— 220 | L.E. M.<br>— 210 | L.E. M.<br>— 190 |
| Cost of upkeep of one patient per annum                             | 83 220           | 81 030           | 80 300           | 76 650           | 69 350           |
| Average number of days stayed in hospital<br>by each patient ... .. | Day<br>14·9      | Day<br>15·4      | Day<br>15·2      | Day<br>14        | Day<br>15·3      |

# THE CONSTRUCTIONAL PROGRAMME

The following table No. 56 shows the hospitals that were constructed and those remaining from that programme.

TABLE No. 56.

| Mudiria or Governorate | District Hospitals                                                        |                                       | Village Hospitals                                                                                                                                |                                                                                                     |
|------------------------|---------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                        | Constructed                                                               | Under construction                    | Constructed                                                                                                                                      | Under construction                                                                                  |
| Behera... ..           | Delingat<br>Kafr el Dawar<br>Rashid<br>Shobrakhit<br>Edfina<br>Kom Hamada | Tai el Barud<br>Abou Hommos<br>El Atf | Hosh Eisa<br>Abul Matamir<br>Edku<br>Kafr Daoud                                                                                                  | Khatatba                                                                                            |
| Gharbia ... ..         | Dessouk<br>Mahalla el Kobra<br>Sherbin                                    | Kafr el Zayat<br>Belkas<br>Talkha     | Baltim<br>Hamoul<br>Damaru<br>Kafr el Atrash<br>Korashia<br>Mit Badr Halawa<br>Kom el Tawil<br>Zaafaran<br>Dakalt<br>Tafahna el Azab<br>Ghorayeb | Beyala<br>Basyoun<br>Damat<br>Saft Torab<br>Shabas Emeir<br>Teida<br>El Wahhal                      |
| Dakahlia ... ..        | Faraskour<br>Sinbillawin<br>Manzala                                       | Aga<br>Dekernes                       | Sahragt el Kobra<br>Kafr Shoukr<br>Beni Ebeid<br>Mit Salsil                                                                                      | Sahragt el Soghra<br>Diarb Negm<br>Mit el Amel<br>El Bayoum<br>Temai el Amdid<br>Bedwai<br>El Zarka |
| Sharkia ... ..         | Belbeis<br>Fakous<br>Minia El Kamh                                        | Abu Kebir<br>Hehia                    | Salhia<br>Geziret Seoud<br>Korein<br>Abu Hammad<br>Zawamel<br>Faroukia                                                                           | Kafr Sakr<br>Ibrahimia<br>Tal Rak<br>Sanhoa                                                         |
| Menoufia ... ..        | Ashmoun<br>Tala<br>Zawyet el Naoura                                       | Menouf<br>Quesna                      | Kafr Rabi'<br>Denshwai<br>Shentena el Hagar                                                                                                      | Bagour<br>Shanshour                                                                                 |
| Qalioubia ... ..       | Shebin el Kanater                                                         | Toukh                                 | —                                                                                                                                                | Barrage<br>Aghour el Kobra<br>Nawa<br>Seriacos                                                      |
| Suez Canal ...         | —                                                                         | Ismailia                              | —                                                                                                                                                | —                                                                                                   |
| Giza ... ..            | Saff                                                                      | Ayat<br>Helwan<br>Oseim               | Wardan<br>Berkash<br>Etfih<br>El Borombol                                                                                                        | Badrashin<br>Abul Nomros                                                                            |
| Beni Suef ... ..       | Wasta                                                                     | Beba                                  | —                                                                                                                                                | Abu Sir el Malaq<br>Boush<br>Ehnasia el Madina<br>Kombosh el Hamra<br>Samsata el Waqf               |

| Mudiria or Governorate | District Hospitals               |                                          | Village Hospitals                                                |                                                                                            |
|------------------------|----------------------------------|------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                        | Constructed                      | Under construction                       | Constructed                                                      | Under construction                                                                         |
| Fayoum ... ..          | Etsa                             | Sennoures                                | —                                                                | El Lahon<br>Matartares<br>Roda<br>Abou Ksah<br>El Gharaq el Soltani<br>Tobhar<br>Kalamshah |
| Minia ... ..           | Beni Mazar<br>Samalot<br>Fashn   | —                                        | Edwa<br>Bartabat                                                 | Bardanouha<br>Sandafa<br>El Fant<br>Ekfahs<br>Nazlet El Abid<br>Balansoura                 |
| Asyût ... ..           | Deirout<br>Badari<br>Sahel Selim | Abu Tig<br>Manfalout<br>Abnoub<br>Dalaga | Kosia<br>Tatalia<br>Doweir<br>Beni Mohd.<br>Ma'abda<br>Kalandoul | Hour<br>Deir Moas<br>Motia                                                                 |
| Girga ... ..           | Girga<br>Akhmin<br>Baliana       | —                                        | Seflak<br>Galawia<br>Tema                                        | Menshah<br>Awlad Ali<br>Geziret Shandawil<br>Nazza<br>El Araba el Mad-<br>founa            |
| Kena ... ..            | Deshna<br>Kous                   | Nag' Hamadi                              | Armant<br>Dabia<br>Nakada<br>Ballas                              | Kom Ya'coub                                                                                |
| Aswân ... ..           | Edfou<br>Kom Ombo                | —                                        | Sibaia<br>Bosailia<br>Draw                                       | Enneiba<br>Eklit                                                                           |

## CHAPTER VIII.

### PHARMACIES

#### PRIVATE PHARMACIES

The Department granted this year 19 permits for new private pharmacies, 16 of which belonged to local subjects (11 owned by qualified pharmacists and 5 by non-pharmacists) and 3 belonged to foreign subjects (2 owned by qualified pharmacists and 1 by a non-pharmacist). 22 pharmacies were closed down; 11 of which belonged to local subjects (4 owned by qualified pharmacists and 7 by non-pharmacists) and 11 belonged to foreign subjects (8 owned by qualified pharmacists and 3 by non-pharmacists).

The total number of existing pharmacies amounted to 437 of which 349 are possessed by Egyptians (219 owned by qualified pharmacists and 130 by non-pharmacists) and 88 are possessed by foreigners (49 owned by qualified pharmacists and 39 by non-pharmacists).

#### PHARMACIES ANNEXED TO PUBLIC HEALTH OFFICES

During 1934 there were 16 small pharmacies attached to District Health Offices. This number still remains the same during the year 1935. These pharmacies are annexed to Health Offices for the purpose of dispensing medicine to patients in localities where no private pharmacies, hospitals or clinics exist.

#### CAIRO NIGHT SERVICE PHARMACIES

During 1934 there were 6 night service pharmacies in Cairo, dispensing 3,763 prescriptions during the night. During this year the number of these pharmacies increased to 8, dispensing 5,962 prescriptions, excluding specialities and patented medicines which are issued without prescriptions.

#### MEDICAL PRACTITIONERS WHO PREPARE DRUGS IN THEIR CLINICS FOR THEIR PRIVATE PATIENTS

The following table shows the number of Medical Practitioners who prepared Drugs in their clinics for their private patients during 1935:—

|                          |    |                  |    |
|--------------------------|----|------------------|----|
| Cairo ... ..             | 37 | Kalioubia ... .. | 16 |
| Alexandria ... ..        | 18 | Giza ... ..      | 11 |
| Canal Governorate ... .. | 6  | Fayoum ... ..    | 5  |
| Gharbia ... ..           | 31 | Beni-Suef ... .. | 6  |
| Behera ... ..            | 20 | Minia ... ..     | 9  |
| Menoufia ... ..          | 19 | Asyût ... ..     | 13 |
| Dakahlia ... ..          | 15 | Girga ... ..     | 8  |
| Sharkia ... ..           | 17 | Kena ... ..      | 7  |

#### POISONOUS DRUG STORES

The Department granted 76 permits for dealing in poisonous substances and narcotics, of which 30 were granted to commissioners, 17 to drug stores, 26 for trading in agricultural and industrial poisonous substances and 3 permits for trading in stupeficient drugs.

#### SIMPLE DRUG STORES

21 permits were granted by the Department for simple drug stores, 5 in Cairo, 3 in Alexandria, 9 in the Provinces and 4 in the other Governorates.

The actual number of simple drug stores existing is 262 of which there are 61 in Cairo, 48 in Alexandria, 128 in the provinces and 25 in the other Governorates.

EGYPTIAN SPECIALITES

The Department had granted 20 permits for preparation and sale of Egyptian specialities and refused the registration of 3 specialities.  
The actual number of Egyptian specialities registered in the Department is 430.

STUDENTS OF PHARMACY

14 graduates of the Egyptian School of Pharmacy and 38 graduates of foreign schools of Pharmacy have been authorised by the Department this year to pass the statutory period of training in pharmacies. The total number is thus 52.

PERMITS FOR TRADING IN MEDICINAL PLANTS

Three permits for trading in medicinal plants were granted by the Department.

CONTRAVENTION TO LAW

The number of cases of contravention brought by the Department before the Court amounted to 254 of which 200 were for trading in poisonous drugs without a permit, 15 for practising pharmacy without authorisation and 39 against pharmacists and assistant-pharmacists for contravening the Law.

Judgments of fine or closure were given in 201 contraventions.

Table No. 57 shows quantities of stupefacients imported into Egypt and exported therefrom during 1935.

TABLE NO. 57

| Name of Drug                                  | Quantities imported |       | Quantities exported |       |
|-----------------------------------------------|---------------------|-------|---------------------|-------|
|                                               | Kilos.              | Grms. | Kilos.              | Grms. |
| Opium and its preparations ... ..             | 20                  | 550   |                     | 160   |
| Morphine and its salts ... ..                 | 2                   | 407   |                     | 181   |
| Heroine and its salts ... ..                  |                     | 387   |                     | 2     |
| Eucodal and its salts ... ..                  |                     | 137   |                     | —     |
| Cocaine and its salts ... ..                  | 4                   | 454   |                     | 12    |
| Cannabis Indica (extract and tincture) ... .. | 2                   | 080   |                     | 710   |

Quantities of stupefacients confiscated for illicit import and export:—

|                        |            |
|------------------------|------------|
| Opium ... ..           | 219 kilos. |
| Cannabis indica ... .. | 375 „      |
| Heroine ... ..         | 7 „        |

Quantities of stupefacients consumed for medicinal purposes:—

|                                   |           |
|-----------------------------------|-----------|
| Opium and its preparations ... .. | 57 kilos. |
| Morphine and its salts ... ..     | 3 „       |
| Cocaine and its salts ... ..      | 4 „       |
| Cannabis indica ... ..            | 3 „       |

# CHAPTER IX.

## MEDICAL PERMITS

Table No. 58 shows the number of practitioners of the medical and allied professions at the end of the year 1935 as compared with that of the year 1934:—

TABLE No. 58

| Profession                       | End of 1934 | End of 1935 |
|----------------------------------|-------------|-------------|
| Medical practitioners ... ..     | 3,063       | 3,151       |
| Veterinary surgeons ... ..       | 273         | 302         |
| Dental surgeons ... ..           | 357         | 385         |
| Dentists without diplomas ... .. | 147         | 144         |
| Pharmacists ... ..               | 767         | 801         |
| Assistant pharmacists ... ..     | 347         | 346         |
| Midwives ... ..                  | 458         | 471         |

The number of dentists without diplomas and assistant-pharmacists shows a decrease as permits are no longer issued to persons of these two categories.

Table No. 59 shows the number of persons authorised to practise the medical and allied professions in Egypt during the last five years, 1931–1935:—

TABLE No. 59

| Profession                   | 1931 | 1932 | 1933 | 1934 | 1935 |
|------------------------------|------|------|------|------|------|
| Medical practitioners ... .. | 207  | 163  | 169  | 140  | 132  |
| Veterinary surgeons ... ..   | 24   | 11   | 53   | 28   | 31   |
| Dental surgeons ... ..       | 47   | 28   | 22   | 20   | 31   |
| Pharmacists ... ..           | 27   | 14   | 23   | 25   | 39   |
| Asst. pharmacists ... ..     | 6    | —    | 1    | —    | —    |
| Midwives ... ..              | 58   | 34   | 31   | 22   | 14   |
| Dayas } Green Permit ... ..  | 212  | 264  | 259  | 300  | 269  |
| } White Permit ... ..        | —    | 2    | 1    | 4    | 2    |
| Barbers ... ..               | 2    | 4    | 3    | —    | 1    |

Table No. 60 shows the nationalities of persons authorised to practise the medical professions during 1935:—

TABLE No. 60

| Profession                   | Egyptians | Italians | British | Greeks | Austrians | Germans | French | Persians | Total |
|------------------------------|-----------|----------|---------|--------|-----------|---------|--------|----------|-------|
| Medical practitioners ... .. | 121       | 1        | 2       | 1      | 1         | 2       | 3      | 1        | 132   |
| Veterinary surgeons ... ..   | 31        | —        | —       | —      | —         | —       | —      | —        | 31    |
| Dental surgeons ... ..       | 29        | —        | —       | 2      | —         | —       | —      | —        | 31    |
| Pharmacists ... ..           | 38        | —        | 1       | —      | —         | —       | —      | —        | 39    |
| Midwives... ..               | 13        | 1        | —       | —      | —         | —       | —      | —        | 14    |

Table No. 61 shows the origin of diplomas the holders of which were authorised to practise their professions during 1935:—

TABLE No. 61

| Profession                | Egypt | France | Great Britain | Italy | Germany | Switzerland | Syria | Greece | Austria | Total |
|---------------------------|-------|--------|---------------|-------|---------|-------------|-------|--------|---------|-------|
| Medical practitioners ... | 97    | 14     | 12            | 1     | 2       | 1           | 5     | —      | —       | 132   |
| Veterinary surgeons... .. | 31    | —      | —             | —     | —       | —           | —     | —      | —       | 31    |
| Dental surgeons ... ..    | 25    | —      | —             | —     | 2       | —           | 3     | 1      | —       | 31    |
| Pharmacists ... ..        | 29    | 1      | 1             | —     | —       | 1           | 5     | —      | 2       | 39    |
| Midwives ... ..           | 12    | 1      | —             | 1     | —       | —           | —     | —      | —       | 14    |

Table No. 62 shows the origin of diplomas of Egyptian practitioners who were authorised to practise their professions during 1935:—

TABLE No. 62

| Profession             | Faculty of Medicine at Cairo | Austrian Universities | British Universities | German Universities | French Universities | Swiss Universities | Syrian Universities | Total |
|------------------------|------------------------------|-----------------------|----------------------|---------------------|---------------------|--------------------|---------------------|-------|
| Medicine ... ..        | 97                           | —                     | 10                   | —                   | 10                  | 1                  | 3                   | 121   |
| Veterinary Surgery ... | 31                           | —                     | —                    | —                   | —                   | —                  | —                   | 31    |
| Dentistry ... ..       | 25                           | —                     | —                    | 1                   | —                   | 3                  | —                   | 29    |
| Pharmacy ... ..        | 29                           | 2                     | —                    | —                   | 1                   | 1                  | 5                   | 38    |
| Midwifery ... ..       | 12                           | —                     | —                    | —                   | 1                   | —                  | —                   | 13    |

Table No. 63 shows the result of the State Examinations held during 1935 for medical practitioners, pharmacists and dental surgeons holding foreign diplomas for the purpose of obtaining permits to practise their professions in Egypt:—

TABLE No. 63

| Examination      | Number | Egyptians |        | Foreigners |        | Total     |        |
|------------------|--------|-----------|--------|------------|--------|-----------|--------|
|                  |        | Succeeded | Failed | Succeeded  | Failed | Succeeded | Failed |
| Medicine ... ..  | 12     | 2         | 3      | 3          | 4      | 5         | 7      |
| Pharmacy ... ..  | 13     | 4         | 5      | 1          | 3      | 5         | 8      |
| Dentistry ... .. | 18     | 6         | 7      | 2          | 3      | 8         | 10     |

TABLE No.64.—SHOWS THE NUMBER OF INHABITANTS PER MEDICAL PRACTITIONER IN GOVERNORATES AND PROVINCES AT THE END OF THE YEAR 1935.

TABLE No. 64

| Governorates or Provinces     | Number<br>of practitioners | Number of inhabi-<br>tants per medical<br>practitioner |
|-------------------------------|----------------------------|--------------------------------------------------------|
| Cairo Governorate ... ..      | 1,466                      | 80 ½                                                   |
| Alexandria Governorate ... .. | 492                        | 1,298                                                  |
| Suez Governorate ... ..       | 34                         | 1,302                                                  |
| Canal Governorate ... ..      | 73                         | 2,330                                                  |
| Damietta Governorate... ..    | 12                         | 3,145                                                  |
| Frontier Districts ... ..     | 23                         | 4,537                                                  |
| Aswân Province ... ..         | 31                         | 9,161                                                  |
| Giza Province ... ..          | 61                         | 9,520                                                  |
| Kaliubia Province ... ..      | 69                         | 9,922                                                  |
| Gharbia Province ... ..       | 176                        | 10,995                                                 |
| Dakahlia Province ... ..      | 96                         | 12,415                                                 |
| Asyût Province ... ..         | 88                         | 13,514                                                 |
| Sharkia Province ... ..       | 79                         | 13,724                                                 |
| Minia Province ... ..         | 63                         | 14,478                                                 |
| Beni-Suef Province ... ..     | 35                         | 16,072                                                 |
| Menoufia Province ... ..      | 71                         | 16,912                                                 |
| Beheira Province ... ..       | 63                         | 17,058                                                 |
| Girga Province ... ..         | 54                         | 19,831                                                 |
| Fayoum Province ... ..        | 30                         | 20,186                                                 |
| Kena Province ... ..          | 45                         | 22,068                                                 |

# CHAPTER X.

## MEDICAL COMMISSIONS

### THE CENTRAL MEDICAL COMMISSION.

During the year 1935, the Central Medical Commission issued 16,132 medical certificates with an increase of 2,327 certificates as compared with figures of the year 1934.

Out of the total number of 16,132: 5,957 were examined for sick leave of which 3,922 were cadré and temporary officials and 2,035 were hors cadre employees.

The number of patients who were found suffering from medical diseases and were granted sick leave by the Central Medical Commission or by Cairo District Medical Officers and approved by the Central Medical Commission, was 1,618 cadré and temporary officials and 462 hors cadre employees. These were 1,987 and 1,721 respectively in the other Governorates and Provinces.

The patients suffering from surgical and ophthalmic diseases were 971 cadré and temporary officials and 466 hors cadre employees. These were 1,062 and 1,387 respectively in the other Governorates and Provinces.

The percentages of the most were prevalent diseases as follows :—

TABLE NO. 65

| Diseases                                                                | Cadré and Temporary Officials |                   |                            |                   | Hors Cadre Employees |                   |                            |                   |
|-------------------------------------------------------------------------|-------------------------------|-------------------|----------------------------|-------------------|----------------------|-------------------|----------------------------|-------------------|
|                                                                         | Cairo                         |                   | Governorates and provinces |                   | Cairo                |                   | Governorates and provinces |                   |
|                                                                         | Number                        | Percent. to total | Number                     | Percent. to total | Number               | Percent. to total | Number                     | Percent. to total |
|                                                                         |                               | (2589)            |                            | (3049)            |                      | (928)             |                            | (3108)            |
| Bronch. and Lungs ... ..                                                | 252                           | 10                | 316                        | 11                | 76                   | 8                 | 243                        | 8                 |
| Heart and Blood Circ. System ... ..                                     | 210                           | 8                 | 78                         | 3                 | 14                   | 2                 | 52                         | 2                 |
| Stomach and Intestines ... ..                                           | 116                           | 4                 | 168                        | 5                 | 78                   | 8                 | 126                        | 4                 |
| Liver ... ..                                                            | 79                            | 3                 | 73                         | 2                 | 7                    | 1                 | 45                         | 1                 |
| Kidneys and Cyst. ... ..                                                | 154                           | 6                 | 164                        | 5                 | 28                   | 3                 | 113                        | 4                 |
| Nervousness ... ..                                                      | 67                            | 3                 | 91                         | 3                 | 13                   | 1                 | 34                         | 1                 |
| Anæmia and General Debility ... ..                                      | 151                           | 6                 | 341                        | 11                | 34                   | 4                 | 379                        | 12                |
| Rhumatism ... ..                                                        | 169                           | 6                 | 248                        | 8                 | 38                   | 4                 | 181                        | 6                 |
| Fevers ... ..                                                           | 139                           | 5                 | 107                        | 4                 | 55                   | 6                 | 136                        | 4                 |
| Nose and Larynx... ..                                                   | 109                           | 4                 | 83                         | 3                 | 24                   | 3                 | 53                         | 2                 |
| Other Med. Diseases ... ..                                              | 172                           | 7                 | 318                        | 11                | 95                   | 10                | 359                        | 11                |
| Eye Diseases ... ..                                                     | 119                           | 5                 | 164                        | 5                 | 51                   | 6                 | 171                        | 6                 |
| Ear and Dental Diseases ... ..                                          | 99                            | 4                 | 108                        | 4                 | 14                   | 2                 | 74                         | 2                 |
| Appendicitis ... ..                                                     | 50                            | 2                 | 33                         | 1                 | 12                   | 1                 | 22                         | 1                 |
| Other Surgical Operations ... ..                                        | 396                           | 15                | 383                        | 13                | 198                  | 21                | 649                        | 21                |
| Urethral Diseases and Calculi ... ..                                    | 63                            | 2                 | 54                         | 2                 | 30                   | 3                 | 83                         | 3                 |
| Fractures ... ..                                                        | 98                            | 4                 | 109                        | 4                 | 113                  | 12                | 170                        | 6                 |
| Other Surgical Diseases (Fistules, Piles, Hernia and Hydroceles) ... .. | 146                           | 6                 | 211                        | 7                 | 48                   | 5                 | 218                        | 7                 |

The number of sick officials and employees who were granted sick leave from one day up to 10 days by Cairo Medical Officers and by Markaz and Sanitary Outpost Medical Officers in all the Mudirias and Governorates during the year 1935, was 25,461 of which 19,689 or 77·3 per cent suffered from Medical Diseases and 4,190 or 16·4 per cent suffered from Surgical Diseases and 1,582 or 6·3 per cent suffered from Ophthalmic Diseases. The number of days of sick leave granted to the Cadré and Temporary Officials only was 78,701.

The number of patients who were granted sick leave from one day up to 10 days by the Central Medical Commission or by Cairo Districts Medical Officers and approved by the Central Medical Commission was 776 Cadré and Temporary Officials and 433 Hors Cadre Employees.

The number of patients who were examined by the Central Medical Commission and were not granted sick leave was 75 Cadré and Temporary Officials and 54 Hors Cadre employees.

The number of patients who were examined by the Provincial and Governorates Medical Commissions and were not granted sick leave was 265 Cadré and Temporary Officials and 411 Hors Cadre employees.

The number of patients who were granted sick leave from 11 days up to 30 days and upwards by the Central Medical Commission and Cairo District Medical Officers was 1,813 Cadré and Temporary Officials and 495 Hors Cadre employees.

The number of patients who were granted longer sick leaves extending to their retirement on pension by the Central Medical Commission was 40 Cadré and Temporary Officials. The number of Hors Cadre employees who were pronounced unfit for further service was 307.

The number of patients who were also examined by the Central Medical Commission and were found fit for further service was 21 Cadré and Temporary Officials and 65 Hors Cadre employees.

The number of candidates who were examined by the Central Medical Commission for admission to Government Service or for proceeding on Educational Missions abroad was 4,703, of which 2,527 were Cadré and Temporary Officials and 133 Candidates for Missions abroad ; the remaining 2,043 were Hors Cadre employees.

The ratio of Cadré and Temporary Officials rejected in the three sessions was 31 per cent of the number examined for admission to Government Service *i.e.*, the percentage of success was 69. The ratio of Hors Cadre employees rejected was 39·4 per cent of the number examined for admission to Government Service *i.e.*, the percentage of success was 60·6.

Of the candidates examined for admission to permanent or temporary service, 25 per cent failed in vision, myopia being responsible for the failure in most cases. 3 per cent were rejected or pronounced unfit for service on account of defects in the urinary system, the main cause being albumen or its traces. 1 per cent was rejected or found unfit for service on account of Heart diseases, Valvular diseases being the main cause. 2 per cent were rejected or found unfit on account of other diseases such as Varicoceles or Hydroceles for which the necessary operations have not been made, defects in the limbs, apparent poor constitutions or diseases of the Respiratory system, etc.

#### MEDICAL EXAMINATION OF PRIVATE PILOTS

The number of candidates for licences for piloting private aeroplanes who presented themselves before the Central Medical Commission for examination during 1935, was 39, of which 31 were found fit (24 were found fit in the first session, 4 in the 2nd session and 3 in the third session). The failures were 8 (2 failed in the 1st session, 2 in the 1st and 2nd sessions and 4 in the three sessions). Their failure was due to defective vision, colour-blindness and central opacity or internal squint in one of the eyes. They were 6, 1 and 1 respectively.

During the year 1935, 19 pilots were examined for renewal of their licences and all passed in the first examination.

#### PROVINCIAL AND GOVERNORATES MEDICAL COMMISSIONS

20,113 medical certificates were issued by the Provincial and Governorates Medical Commissions during the year 1935, with an increase of 3,740 certificates over those of last year.

#### NIZAMY GHAFIRS

The number of *Nizamy Ghaffirs* who were examined by the Medical Officers of Markazes for admission to Government service or for extension of their voluntary service was 10,769. The failures were 4,117 or 38 per cent and the successful were 6,652 or 62 per cent.

### MODIFICATIONS

The Medical Commissions Regulations issued in 1929 have been modified by modification No. 17, whereby the Medical Commissions are now concerned with the medical examination of the mosques' employees belonging to the Ministry of Wakfs. Departmental Order No. 71 dated October 10, 1935, has been issued to this effect

By modification No. 18 of the said Regulations, the medical examination of candidates for temporary and hors cadre posts, heretofore voluntary, has become compulsory. Finance Circular No. 23 of 1935 has been issued to this effect.

As a result of these two modifications which have been put in force as from November 1935, the work of the Central Medical Commission has greatly increased. Whereas 318 Hors Cadre employees were medically examined for admission to service during November and December of 1934, 661 employees have been medically examined during the same months of 1935, *i.e.* an increase of 110 per cent or 10 per cent more than twice the number.

It is to be pointed out that most of the Ministries and Departments have not as yet carried this Finance Circular into effect and it is therefore anticipated that the increase shall be greater when this Circular is complied with by the remaining Ministries and Departments.

## Appendix I

### CENTRAL STORES

During this year, the Central Stores Section, acting on the same principles laid down in previous years, has equipped the following units with up-to-date instruments and equipment so as to compete with the most modern hospitals:—

- (1) The Vaccine and Serum Institute, Cairo.
- (2) An Out-patient Leprosy Clinic (substituted by a chest diseases dispensary at Damanhour).
- (3) A New Dental Clinic at Luxor.
- (4) Three Ophthalmic Branches at Balyana, Kus and Shebin El Kanater.
- (5) Two Ophthalmic School Clinics (Zaher and Amir Farouk Schools).
- (6) New Sections at the Fever Hospital, Abbassia.
- (7) New Sections, at the Mental Hospitals at Abbassia and Khanka.
- (8) An Out-patient Clinic at Tanta Hospital.
- (9) Increase of beds at Luxor and Samalout Hospitals.
- (10) Increase of beds at Rod El Farag Ophthalmic Hospital.
- (11) „ „ Cairo Leprosy hospital.
- (12) „ „ Demerdash hospital.
- (13) „ „ Mehalla El Kobra hospital.
- (14) Enlargement of Benha ophthalmic hospital.

The Department is still supplying the Egyptian University hospitals with equipment, surgical instruments and drugs.

In view of the present state of affairs, the Central Stores have, as a precautionary measure, provided their various Stores with reserves of all the articles for unforeseen circumstances.

Notwithstanding the rise in the prices brought about by the present unsettled situation, the Central Stores Section managed to obtain these articles at the same prices of the actual contracts, if not less in some respects, thus effecting much economy.

The inflammable articles used to be stocked in the same store as the other ordinary articles. For fear of fire or explosion a special store for the inflammable articles has been constructed on modern scientific lines.

The building has been completed during this year.

The work of the Central Stores is briefly shown in the following figures:—

TABLE No. 66.

| Kind of Work                           | 1934    | 1935    | Decrease | Increase |
|----------------------------------------|---------|---------|----------|----------|
| Receipt vouchers ... ..                | 14,425  | 14,724  | —        | 299      |
| Issue vouchers ... ..                  | 72,199  | 76,686  | —        | 4,487    |
| Claims ... ..                          | 2,034   | 2,242   | —        | 208      |
| Correspondence outward ... ..          | 104,630 | 120,763 | —        | 16,133   |
| Correspondence inward and forms ... .. | 122,471 | 114,868 | 7,603    | —        |
| Postal parcels received ... ..         | 4,688   | 4,755   | —        | 67       |
| Postal parcels despatched ... ..       | 17,109  | 16,073  | 1,036    | —        |
| Workshop labour (repairs) ... ..       | 127,268 | 132,749 | —        | 5,481    |
| Workshop labour (new works) ... ..     | 367,930 | 489,656 | —        | 121,726  |
| Railway parcels despatched ... ..      | 69,251  | 60,468  | 8,783    | —        |
| Railway consignments received ... ..   | 16,144  | 16,293  | —        | 149      |

NEW UNITS FROM JANUARY 1 TO DECEMBER 31, 1935.

- 1 Chest Diseases Dispensary at El-Khalifa, Cairo.
- 5 Ophthalmic Branches at El-Baliana, Kous, Shebin-el-Kanater hospitals attached to Department of Public Health and one at Belbeis attached to Sharkieh Provincial Council, and the other at El-Fashn attached to El-Minia Provincial Council.
- 8 Beds have been added to the Ophthalmic hospitals.

TABLE NO. 67.—SHOWING CONTRACTS AND ORDERS MADE IN 1935,  
AS COMPARED WITH THOSE OF 1934.

| Kind of Work                                       | 1934  | 1935                    | Decrease | Increase |
|----------------------------------------------------|-------|-------------------------|----------|----------|
| General adjudications ... ..                       | 167   | 120                     | 47       | —        |
| Local offers ... ..                                | 370   | 410                     | —        | 40       |
| Contracts ... ..                                   | 720   | 877                     | —        | 157      |
| Local orders ... ..                                | 1,213 | 1,550                   | —        | 337      |
| Foreign orders ... ..                              | 95    | 118                     | —        | 23       |
| Forms 50 C.G. ... ..                               | 5,258 | 5,115                   | 143      | —        |
| Questions submitted to the Contracts Board ...     | 781   | 906                     | —        | 125      |
| Meetings held by Contracts Board ... ..            | 168   | 165                     | 3        | —        |
| Tenders submitted in the general adjudications ... | 1,083 | 990                     | 93       | —        |
| Agreements ... ..                                  | 13    | 13                      | —        | —        |
| Miscellaneous orders ... ..                        | 344   | (Added to local orders) |          |          |

Appendix II

TABLE No. 68.—DETAILS OF BUDGET GRANTS AND ACTUAL EXPENDITURE.

|                                       | Budget Grants |                         | Actual Expenditure |           |
|---------------------------------------|---------------|-------------------------|--------------------|-----------|
|                                       | 1934          | 1935                    | 1934               | 1935      |
|                                       | L.E.          | L.E.                    | L.E.               | L.E.      |
| TITLE I                               |               |                         |                    |           |
| Salaries, Wages and Allowances ... .. | 712,723       | 758,395                 | 682,943            | 711,078   |
| TITLE II                              |               |                         |                    |           |
| General Expenses ... ..               | 770,120       | ( <sup>1</sup> )882,044 | 744,253            | 837,236   |
| TITLE III                             |               |                         |                    |           |
| New Works ... ..                      | 65,855        | ( <sup>2</sup> )109,665 | 23,721             | 39,521    |
| TOTAL ... ..                          | 1,548,698     | 1,750,104               | 1,450,917          | 1,587,835 |

(<sup>1</sup>) This includes additional grants amounting to L.E. 65,300.

(<sup>2</sup>) " " " " " " 35,000.

### Appendix III

TABLE NO. 69.—DETAILS OF POSTS IN THE VARIOUS SECTIONS.

|                                          | General Divisions |      | Health Divisions |       | Medical Divisions |       | Lunacy Division |      | Total |       |
|------------------------------------------|-------------------|------|------------------|-------|-------------------|-------|-----------------|------|-------|-------|
|                                          | 1934              | 1935 | 1934             | 1935  | 1934              | 1935  | 1934            | 1935 | 1934  | 1935  |
| <i>Technical Posts :</i>                 |                   |      |                  |       |                   |       |                 |      |       |       |
| Permanent ... ..                         | 71                | 77   | 311              | 316   | 523               | 542   | 22              | 24   | 927   | 959   |
| Temporary ... ..                         | 3                 | 3    | 200              | 202   | 279               | 280   | 12              | 12   | 494   | 497   |
| <i>Administrative and Clerical Posts</i> |                   |      |                  |       |                   |       |                 |      |       |       |
| Permanent ... ..                         | 175               | 175  | 200              | 201   | 58                | 58    | 16              | 16   | 449   | 450   |
| Temporary ... ..                         | 62                | 62   | 158              | 149   | 117               | 118   | 8               | 11   | 345   | 340   |
| <i>Hors Cadre Staff</i> ... ..           | 247               | 257  | 1,105            | 1,155 | 3,571             | 3,943 | 754             | 802  | 5,677 | 6,157 |
| TOTAL ... ..                             | 558               | 574  | 1,974            | 2,023 | 4,548             | 4,941 | 812             | 865  | 7,892 | 8,403 |

## Appendix IV.

### REPORT OF CAIRO CITY HEALTH INSPECTORATE FOR THE YEAR 1935

#### A.—VITAL STATISTICS.

The estimated mid-year population of Cairo in 1935 was 1,311,200 with an increase of 31.0 per thousand of population.

The following is the distribution of this population in the different *Qisms* :—

|                |     |     |     |     |     |     |                  |
|----------------|-----|-----|-----|-----|-----|-----|------------------|
| Mouski         | ... | ... | ... | ... | ... | ... | 27,800           |
| Bab el Shariya | ... | ... | ... | ... | ... | ... | 88,100           |
| Ezbekiya       | ... | ... | ... | ... | ... | ... | 66,600           |
| Abdin          | ... | ... | ... | ... | ... | ... | 86,800           |
| Sayeda Zenab   | ... | ... | ... | ... | ... | ... | 136,600          |
| Helwan         | ... | ... | ... | ... | ... | ... | 49,300           |
| Khalifa        | ... | ... | ... | ... | ... | ... | 80,000           |
| Darb el Ahmar  | ... | ... | ... | ... | ... | ... | 91,100           |
| Gamalia        | ... | ... | ... | ... | ... | ... | 84,700           |
| Shoubra        | ... | ... | ... | ... | ... | ... | 199,800          |
| Boulaq         | ... | ... | ... | ... | ... | ... | 147,900          |
| Old Cairo      | ... | ... | ... | ... | ... | ... | 59,600           |
| Abbassia       | ... | ... | ... | ... | ... | ... | 192,900          |
| Total          | ... | ... | ... | ... | ... | ... | <u>1,311,200</u> |

#### *Births.*

The total number of births (excluding still-births) registered during the year was 52,646. This number is 1,380 less than in the last year. The birth-rate was 40.1 per thousand of population.

Table No. 70 shows the number of births distributed on the various *Qisms* and their rates per thousand of population.

The number of still-births registered during the same period amounted to 1,161 making a rate of 22.0 per thousand births.

#### *Deaths.*

The total number of deaths registered during the year was 33,071 of which 1,284 occurred amongst non-residents. This leaves 31,787 for Cairo proper. This number is 2,734 less than in the last year.

The general death-rate was 24.2 per thousand of population (*see* Table No. 70 which shows the distribution of these deaths in the various *Qisms* and their rates compared with each other and with the rates of previous years). *See* Chart 1.

#### *Infantile Mortality.*

The total number of deaths of children under one year of age was 10,028 which is 749 less than in the last year. This number constitutes 31.5 per cent of the total deaths of Cairo. The infantile mortality-rate is 190 per thousand live-births (*see* Table No. 70 which shows the distribution of these deaths in the various *Qisms* and their rates compared with each other and with the rates of previous years). *See* Chart 2.

#### *Causes of Infantile Deaths.*

Enteritis and diarrhœa are still responsible for the largest number of infantile deaths. Out of the 10,028 deaths 5,285 were due to diarrhœa and enteritis, *i.e.* 52.7 per cent of the total deaths of infants. General diseases come next accounting for 2,362 or 23.6 per cent. There were also 1,402 from chest diseases (13.9 per cent), 843 or 8.4 per cent from marasmus and 136 or 1.3 per cent from infectious diseases. *See* Chart 3.

Chart 4 shows the weekly deaths of children from enteritis and their association with the average weekly temperature.

#### *Death Inquiries.*

The total number of uncertified deaths which required investigation during the year amounted to 18,923, *i.e.* 59.5 per cent of the total deaths of Cairo.

Out of this number 15,621 deaths were examined by the District M.Os. which makes 82·5 of the total uncertified, 2,615 deaths, *i.e.* 9·0 per cent by the District *Mowalidas* and the remainder by the Dayas and village sanitary barbers in the suburbs of Cairo. See Table No. 71.

### *Infectious Diseases.*

The total number of cases of infectious diseases notified during the year was 9,606 (after excluding 859 cases from outside Cairo) with 2,784 deaths. This is to be compared with 9,614 in 1934 and 9,449 in 1933. Deaths from infectious diseases constitute 8·8 per cent of the total deaths of Cairo.

Table No 72 shows the distribution of the most prevalent infectious diseases in the various districts of Cairo.

#### *Typhoid Fever.*

The total number of cases notified during the year was 1,992 with 557 deaths as against 1,816 in 1934 and 1,678 in 1933. The case rate of the disease was 1·519 per thousand of population and its mortality incidence was 0·425 per thousand of population with a slight increase in both case and mortality rates than in the last year. The highest incidence was in Mousky District being 3·202 per cent ; See Chart 5 and Fig. 12.

#### *Diphtheria.*

The number of cases of Diphtheria notified during the year was 1,119 with 480 deaths making a case-rate and a death-rate of 0·853 and 0·366 per thousand of population respectively, as compared with 974 cases and 372 deaths with the rates of 0·766 and 0·292 respectively in 1934 and 636 cases in 1933.

It is to be noted that a small epidemic of Diphtheria had commenced at the end of August 1934. This epidemic continued its course during the present year. It showed a rise during the latter half of the year and reached its peak again at the end of October. See Chart 6.

The highest incidence of the disease was in Gamalia and then Sayeda Zenab comes next. See Fig. 13.

#### *Measles.*

The total number of cases notified during the year was 462 with 224 deaths as against 1,252 cases with 616 deaths in 1934 and 991 cases in 1933.

The case and death rates of the disease were 0·352 and 0·171 per thousand of population respectively.

The epidemic wave of the disease has greatly subsided during this year than in the previous year.

Out of the 224 deaths, 181 were diagnosed after death. See Chart 7 and Fig. 14.

#### *Cerebro-spinal Fever.*

The total number of cases notified during the year was 46 with 30 deaths as compared with 84 cases in 1934 and 255 cases in 1933. The case and death rates during the year were 0·035 and 0·023 per thousand of population respectively. See Chart 8 and Fig. 15.

#### *Scarlet Fever.*

The number of cases notified during the year was 32 cases with one death only as against 43 cases during 1934 and 43 cases during 1933. This makes a case-rate of 0·024 and a death-rate of 0·001 per thousand of population. See Chart 9 and Fig. 16.

#### *Small-pox.*

No cases of this disease were recorded during the whole year. In 1934 there were 29 cases while in 1933 there were 113 cases. This shows that the small epidemic which commenced in 1933 had come to an end. See Chart 10.

### *Typhus Fever.*

The total number of cases notified during the year was 37 with 8 deaths as compared with 48 in 1934 and 209 cases in 1933. The case-rate and the death-rate during the year were 0·028 and 0·006 per thousand of population respectively.

See Chart 11 and Fig. 17.

### *Influenza.*

The total number of cases recorded during the year was 894 with 27 deaths making a case-rate of 0·682 and a death-rate of 0·021 per thousand of population.

The number of deaths from influenza and pneumonia added was 3,829, *i.e.* 12·6 per cent of the total deaths of Cairo. During the last year 5,100 deaths were attributed to influenza and pneumonia.

All deaths due to respiratory diseases excluding tuberculosis amounted to 4,905 of which 3,802 were from pneumonia and broncho-pneumonia.

The following is the age distribution of deaths from pneumonia and broncho-pneumonia :

| Age Group   | Number<br>of Deaths |
|-------------|---------------------|
| 0— 5        | 2,851               |
| 5—15        | 247                 |
| 15—35       | 171                 |
| 35 and over | 533                 |
| TOTAL ...   | 3,802               |

### *Childbearing Mortality.*

There were 150 deaths registered due to childbearing making a mortality-rate of 2·849 per thousand births as compared with a rate of 3·035 in 1934 and 3·107 in 1933. Out of the total deaths of mothers in this year 48 were due to puerperal fever, which makes a death-rate of 0·912 per thousand births as against a rate of 1·295 in 1934 and 1·590 in 1933 showing a marked progressing improvement.

The total number of mothers who died within a fortnight of confinement, after excluding puerperal fever, amounted to 102 of which 37 were attributed to eclampsia, 5 to heart diseases, 10 to difficult labour, 9 to postpartum haemorrhage, 4 to antepartum haemorrhage, 10 to ruptures and tears of uterus, 3 to embolism, 8 to septicemia, 1 to white leg, 1 to tear of prenum, 3 to nephritis, 1 to pneumonia, 2 to peritonitis, 4 to placenta praevia, 2 to retained placenta and 2 to ectopic gestation.

### *Disinfection.*

During the year 1935, the total number of rooms disinfected amounted to 44,142 of which 23,504 were carried out by Abbassia disinfection station and 20,638 by Fum el-Khalig disinfection station.

**TABLE NO. 70.—SHOWING BIRTHS, DEATHS, INFANTILE DEATHS AND THEIR RATES IN THE DIFFERENT DISTRICTS OF CAIRO, AS COMPARED WITH THE RATES OF PREVIOUS YEARS.**

| Districts                | Births Excluding Still-Births |                             | Deaths         |                             | Infantile Deaths |                         | Population       |
|--------------------------|-------------------------------|-----------------------------|----------------|-----------------------------|------------------|-------------------------|------------------|
|                          | Births                        | Rate per 1000 of Population | Deaths         | Rate per 1000 of Population | Deaths           | Rate per 1000 of Births |                  |
| Musky ... ..             | 822                           | 29·6                        | 517            | 18·6                        | 142              | 173                     | 27,800           |
| Bab el-Shaaria ... ..    | 3,627                         | 41·2                        | 2,152          | 24·4                        | 660              | 182                     | 88,100           |
| Ezbekia ... ..           | 1,716                         | 25·8                        | 1,102          | 16·5                        | 276              | 161                     | 66,600           |
| Abdin ... ..             | 2,276                         | 26·2                        | 1,631          | 18·8                        | 421              | 185                     | 86,800           |
| Sayida Zeinab I. ... ..  | 3,658                         | 50·2                        | 1,938          | 26·6                        | 665              | 182                     | 72,900           |
| „ „ II. ... ..           | 2,133                         | 33·5                        | 1,442          | 22·6                        | 421              | 197                     | 63,700           |
| Helwan ... ..            | 1,807                         | 36·6                        | 1,272          | 25·8                        | 410              | 227                     | 49,300           |
| Khalifa ... ..           | 3,139                         | 39·2                        | 2,272          | 28·4                        | 712              | 227                     | 80,000           |
| Darb el-Ahmar ... ..     | 3,265                         | 35·8                        | 2,081          | 22·8                        | 638              | 195                     | 91,100           |
| Gamalia ... ..           | 3,417                         | 40·3                        | 1,939          | 23·5                        | 599              | 175                     | 84,700           |
| Shubra ... ..            | 10,130                        | 50·7                        | 5,087          | 25·5                        | 1,716            | 169                     | 199,800          |
| Bulaq I. ... ..          | 4,120                         | 45·0                        | 2,480          | 27·1                        | 849              | 206                     | 91,600           |
| „ II. ... ..             | 2,328                         | 41·3                        | 1,333          | 23·7                        | 435              | 187                     | 56,300           |
| Old Cairo ... ..         | 3,078                         | 51·6                        | 2,006          | 33·7                        | 705              | 229                     | 59,600           |
| Abbassia ... ..          | 4,168                         | 37·2                        | 2,495          | 22·3                        | 789              | 189                     | 112,000          |
| Zeitoun ... ..           | 1,575                         | 45·3                        | 1,046          | 30·0                        | 315              | 200                     | 34,800           |
| Helopolis ... ..         | 1,387                         | 30·1                        | 914            | 20·5                        | 275              | 198                     | 46,100           |
| <b>Cairo City ... ..</b> | <b>52,646</b>                 | <b>40·1</b>                 | <b>31,787</b>  | <b>24·2</b>                 | <b>10,028</b>    | <b>190</b>              | <b>1,311,200</b> |
| <b>1934... ..</b>        | <b>54,026</b>                 | <b>42·5</b>                 | <b>34,521</b>  | <b>27·1</b>                 | <b>10,777</b>    | <b>199</b>              | <b>1,271,800</b> |
| <b>1933... ..</b>        | <b>54,703</b>                 | <b>44·3</b>                 | <b>33,629</b>  | <b>27·3</b>                 | <b>10,945</b>    | <b>200</b>              | <b>1,233,500</b> |
| <b>1932... ..</b>        | <b>52,745</b>                 | <b>44·1</b>                 | <b>30,640</b>  | <b>25·6</b>                 | <b>10,417</b>    | <b>197</b>              | <b>1,196,400</b> |
| <b>1931... ..</b>        | <b>51,625</b>                 | <b>44·5</b>                 | <b>33,593</b>  | <b>28·9</b>                 | <b>11,156</b>    | <b>216</b>              | <b>1,160,760</b> |
| <b>1926-1930 ... ..</b>  | <b>235,003</b>                | <b>46·4</b>                 | <b>152,856</b> | <b>30·2</b>                 | <b>51,853</b>    | <b>221</b>              | <b>5,064,100</b> |
| <b>1921-1925 ... ..</b>  | <b>201,554</b>                | <b>51·2</b>                 | <b>135,848</b> | <b>34·3</b>                 | <b>47,404</b>    | <b>234</b>              | <b>3,956,400</b> |
| <b>1916-1920 ... ..</b>  | <b>158,617</b>                | <b>42·0</b>                 | <b>151,858</b> | <b>40·3</b>                 | <b>43,483</b>    | <b>274</b>              | <b>3,771,833</b> |

**TABLE NO. 71.—DISTRIBUTION OF UNCERTIFIED DEATHS AND DEATH INQUIRIES IN THE VARIOUS DISTRICTS IN 1935.**

| District               | All Deaths    | Uncertified Deaths                        |                                  |                                          |                               |                 | Percentage of Deaths Uncertified |
|------------------------|---------------|-------------------------------------------|----------------------------------|------------------------------------------|-------------------------------|-----------------|----------------------------------|
|                        |               | Investigated by District Medical Officers | Investigated by District Hakimas | Investigated by Village Sanitary Barbers | Investigated by Village Dayas | District Totals |                                  |
| Musky ... ..           | 517           | 181                                       | 28                               | —                                        | —                             | 209             | 40·4                             |
| Bab el-Shaaria ..      | 2,152         | 1,314                                     | 190                              | —                                        | —                             | 1,504           | 69·9                             |
| Ezbekia ... ..         | 1,102         | 351                                       | 50                               | —                                        | —                             | 401             | 36·4                             |
| Abdin ... ..           | 1,631         | 500                                       | 65                               | —                                        | —                             | 565             | 34·6                             |
| Sayida Zeinab ..       | 3,380         | 1,268                                     | 199                              | —                                        | —                             | 1,467           | 45·7                             |
| Helwan ... ..          | 1,272         | 374                                       | 73                               | 419                                      | 57                            | 923             | 72·6                             |
| Khalifa ... ..         | 2,272         | 1,624                                     | 207                              | —                                        | —                             | 1,831           | 80·6                             |
| Darb el-Ahmar ..       | 2,081         | 1,141                                     | 197                              | —                                        | —                             | 1,338           | 64·3                             |
| Gamalia ... ..         | 1,989         | 1,009                                     | 162                              | —                                        | —                             | 1,181           | 59·4                             |
| Shubra ... ..          | 5,087         | 2,557                                     | 319                              | 39                                       | 4                             | 2,919           | 57·4                             |
| Bulaq ... ..           | 3,813         | 2,103                                     | 710                              | —                                        | —                             | 2,813           | 73·9                             |
| Old Cairo ... ..       | 2,006         | 1,195                                     | 163                              | 146                                      | 22                            | 1,526           | 76·1                             |
| Waili ... ..           | 4,485         | 1,991                                     | 252                              | —                                        | —                             | 2,246           | 53·5                             |
| <b>TOTAL FOR CAIRO</b> | <b>31,787</b> | <b>15,621</b>                             | <b>2,615</b>                     | <b>604</b>                               | <b>83</b>                     | <b>18,923</b>   | <b>59·5</b>                      |

TABLE No. 72.—DISTRICT DISTRIBUTION OF THE PRINCIPAL ZYMOTIC DISEASES, 1935.

| District            | Population | Cerebro-spinal<br>Fever |        | Typhus Fever |        | Typhoid Fever |        | Scarlet Fever |        | Diphtheria |        | Measles |        | Totals |        |
|---------------------|------------|-------------------------|--------|--------------|--------|---------------|--------|---------------|--------|------------|--------|---------|--------|--------|--------|
|                     |            | Cases                   | Deaths | Cases        | Deaths | Cases         | Deaths | Cases         | Deaths | Cases      | Deaths | Cases   | Deaths | Cases  | Deaths |
| Musky ...           | 27,800     | —                       | —      | 2            | —      | 57            | 8      | 2             | —      | 17         | 3      | 4       | —      | 82     | 11     |
| Bab el-Shaaria ...  | 88,100     | 3                       | 2      | 1            | —      | 129           | 49     | —             | —      | 97         | 46     | 26      | 16     | 256    | 113    |
| Ezbekia ...         | 66,600     | 3                       | 3      | —            | —      | 109           | 26     | —             | —      | 38         | 13     | 9       | 2      | 159    | 44     |
| Abdin ...           | 86,800     | 1                       | 1      | —            | —      | 126           | 27     | 6             | —      | 89         | 29     | 20      | 5      | 242    | 62     |
| Sayida Zeinab ...   | 136,600    | 4                       | 3      | 3            | 1      | 213           | 67     | 1             | —      | 127        | 49     | 74      | 42     | 422    | 162    |
| Khalifa ...         | 80,000     | 2                       | 2      | 1            | —      | 114           | 37     | 1             | —      | 85         | 50     | 14      | 6      | 217    | 96     |
| Helwan ...          | 49,300     | 2                       | —      | —            | —      | 36            | 10     | 1             | 1      | 29         | 17     | 7       | 3      | 75     | 30     |
| Darb el-Ahmar ...   | 91,100     | 2                       | 2      | 1            | —      | 78            | 23     | —             | —      | 61         | 30     | 24      | 9      | 116    | 64     |
| Gamalia ...         | 84,700     | 3                       | 1      | 1            | —      | 116           | 31     | 2             | —      | 81         | 41     | 29      | 17     | 232    | 91     |
| Shubra ...          | 199,800    | 9                       | 7      | 15           | 3      | 325           | 91     | 3             | —      | 166        | 70     | 52      | 24     | 570    | 195    |
| Boulac ...          | 147,900    | 4                       | 2      | 3            | 1      | 208           | 88     | 3             | —      | 125        | 62     | 77      | 68     | 420    | 221    |
| Old Cairo ...       | 59,600     | —                       | —      | 5            | 1      | 61            | 17     | —             | —      | 53         | 20     | 16      | 8      | 135    | 46     |
| Waili ...           | 112,000    | 5                       | 3      | 4            | 1      | 258           | 53     | 5             | —      | 103        | 34     | 53      | 21     | 428    | 112    |
| Zeitun ...          | 34,800     | 4                       | 2      | 1            | —      | 53            | 12     | —             | —      | 18         | 8      | 2       | 1      | 78     | 23     |
| Heliopolis ...      | 46,100     | 4                       | 2      | —            | —      | 109           | 18     | 8             | —      | 30         | 8      | 55      | 2      | 206    | 30     |
| Total for Cairo ... | 1,311,200  | 46                      | 30     | 37           | 8      | 1,992         | 557    | 32            | 1      | 1,119      | 480    | 462     | 224    | 3,688  | 1,300  |

## CONTROL OF PASSENGERS AND PILGRIMS

### (a) *Passengers.*

During 1935 there were 28,488 passengers who arrived in Cairo from infected countries as compared with 30,132 in 1934 with a decrease of 1,644.

Out of this total 5,422 or 19 per cent arrived *via* Alexandria, 3,381 or 11·8 per cent *via* Port-Said 2,066 or 7·2 *via* Suez, 16,589 or 58·2 *via* Qantara and 1,030 or 3·5 per cent by airships.

All these passengers with the exception of 14, who could not be traced, were observed, during the regulation period.

### (b) *Pilgrims.*

The total number of pilgrims who left Cairo with passports issued by the Governorate was 995 as compared with 917 in 1934.

All of these pilgrims returned and underwent the regulation period of observation.

Of those who returned to Cairo from the Hedjaz, one died of hemiplegia and another died at Qasr el Aini Hospital of heart failure.

## GOVERNMENT FEVER HOSPITAL, ABBASSIA.

The number of admissions to the Government Fever Hospital, Abbassia, during 1935 was 6,706 as compared with 6,383 in 1934.

Of these 3,826 were males and 2,880 were females.

The number of admissions per month was :—

298 January.  
369 February.  
326 March.  
538 April.  
683 May.  
688 June.  
818 July.  
914 August.  
717 September.  
589 October.  
468 November.  
298 December.

The patients consisted of :—

67 Chicken-pox.  
24 Scarlet fever.  
1,252 Typhoid fever.  
120 Para-typhoid.  
55 Cerebro-spinal fever.  
556 Diphtheria.  
13 Whooping cough.  
83 Measles.  
112 Mumps.  
900 Influenza.  
325 Erysipelas.  
105 Pneumonia.  
14 Pneumococcal meningitis.  
51 Typhus.  
448 Malaria.  
29 Tetanus.  
49 Dysentery.  
67 Tuberculosis.  
22 Puerperal fever.

- 1 Undulant fever.
- 2 Encephalitis Lethargica.
- 158 Persons were sent to hospital under a mistaken diagnosis of infectious disease.
- 438 Persons were sent in under observation in whom no disease of any sort manifested itself.

Of the 6,706 admissions, 299 were first class, 496 second class, and the remainder 5,911 third class.

There were 713 deaths in hospital during 1935. Of these there were 14 caused by measles, 196 by diphtheria, 243 by typhoid, 14 by pneumococcal meningitis, 8 by para-typhoid, 10 by typhus, 41 by cerebro-spinal meningitis, 1 by mumps and burns, 2 by encephalitis lethargica, 40 by erysipelas, 16 by tetanus, 7 by puerperal fever, 11 by tuberculosis, 6 by dysentery, 52 by pneumonia, 1 by undulant fever, 1 by whooping cough, 1 by scarlet fever and 49 by other diseases.

In addition there were 207 deaths amongst patients sent in under mistaken diagnosis of infectious disease and whose condition did not permit of a refusal of admission.

Of the 5,911 third class patients, there were 497 convict patients from Cairo prisons. Of these 58 were suffering from typhoid, 16 from para-typhoid, 22 from erysipelas, 45 from malaria, 158 from influenza, 1 from cerebro-spinal fever and 197 from other diseases.

Of the convict patients 11 died from typhoid, 1 from cerebro-spinal fever and 12 from other diseases.

#### WORK DONE AT THE OFFICE OF THE PRINCIPAL MEDICAL OFFICER OF POLICE DURING THE YEAR 1935.

The following describes in brief the amount of work performed during the year :—

|                                                                                                    |        |
|----------------------------------------------------------------------------------------------------|--------|
| Number of policemen examined for sick leave ... ..                                                 | 3,190  |
| Other members of the Police examined for sick leave ...                                            | 436    |
| Number of those applying for various professions ... ..                                            | 2,923  |
| Number of medico-legal examinations including certification<br>of lunatics and drug-addicts ... .. | 27,163 |
| Number of subordinate staff examined for minor posts ...                                           | 60     |

#### *Hygienic Work.*

|                                                                |     |
|----------------------------------------------------------------|-----|
| Number of inspections of Police units ... ..                   | 475 |
| Number of those vaccinated against Small-pox ... ..            | 217 |
| Number of those inoculated against typhoid fever(2 injections) | 422 |

#### SANITARY CONTROL OF PUBLIC WOMEN.

The total number of prostitutes on the register during 1935 was 1,031. Of these 892 were natives and the remainder foreigners.

During the year 234 names were struck off the register of whom 195 were natives.

180 new names were registered during the year, *i.e.* 161 natives and 19 foreigners.

The total number of examinations carried out during the year was 31,302 for natives and 5,222 for foreigners.

There were 30 European prostitutes who were found sick during the year and 237 natives.

2,900 unregistered prostitutes (all natives) were examined at the request of the Police as compared with 2,717 in 1934 ; 808 of whom were found diseased.

Their diseases were as follows :—

- 92 Primary syphilis.
- 310 Secondary syphilis.
- 342 Gonorrhoea.
- 64 Chancroids.

#### GENERAL SANITATION

##### *(a) Milk.*

The total number of milk samples collected during the year was 2,703 as compared with 3,275 in 1934.

Of these 503 were found adulterated making a percentage of 18·6 of the total samples collected as against 18·3 in 1934.

Enormous quantities of food-stuffs were destroyed being unfit for human consumption.

(b) *Cemeteries.*

The approval of the Inspectorate was given regarding the creation of a cemetery for the Roman Catholics at Heliopolis.

The approval of the Inspectorate was given regarding the creation of a cemetery for the Jews at Heliopolis.

The approval of the Inspectorate was given regarding the creation of a cemetery for the Evangelicans at the Gebel el Ahmar.

The approval of the Inspectorate was given regarding the creation of a cemetery for the Armenian Orthodox at Heliopolis.

The approval of the Inspectorate was given for the creation of a cemetery for the Copts Orthodox at Tura.

(c) *Free Water Taps and Gullies.*

A free water tap was installed at the request of the Inspectorate at Ezbet el Wabour, Helwan el Beled.

A free water tap was installed at the request of the Inspectorate at Der el Tin.

The free water tap No. 30 at Sharia el Naser was transferred to another site in the same street at the request of the Inspectorate.

The free water tap No. 14 at Sharia Madrasat el Tib was transferred to Sharia el Khalig el Masri at the request of the Inspectorate.

In 1935, the Inspectorate took charge of all free water taps in Cairo including staff. In preceding years these taps were under the control of the Cairo Water Company although the Government was paying for the water consumed.

(d) *Mosques.*

6 water systems were connected with the main sewers during the year. 13 others have been repaired and opened for use.

Applications received for connection with the public sewers during the year were 12 in number.

(e) *Complaints.*

The number of those received and dealt with regarding questions of general sanitation were 1,681. Of these 115 were connected with the prevalence of mosquitoes, 751 *re* rats, 103 *re* fencing of waste lands, 10 *re* street gullies and 692 *re* other sanitary questions.

The rat-catching gangs attached to this Inspectorate caught 19,067 rats from the different Government offices and private houses as compared with 10,461 in 1934.

(f) *Anti-malarial Measures.*

The number of mulahezeen who were working in the General Campaign against mosquitoes in Cairo was 52 exclusive of 6 acting as overseers to control these mulahezeen. The number of workmen employed was 173.

In the application of para. 2 of Art. 4 of the Law No. 1 of 1926, many owners of houses amounting to 350 have put the water installation of their houses into a proper sanitary condition.

About 500 judgments are now in the Inspectorate under enforcement.

The judgments were served on the owners of the houses and new delays were given for carrying out the conditions.

The work of these gangs has markedly reduced the mosquito pest in Cairo. The work of these gangs has also greatly assisted the Vidange Section of the Inspectorate as all overflowing cesspits were immediately reported on by the anti-mosquito mulahezeen. Other nuisances were also reported by them.

In view of the high Nile flood this year and the appearance of infiltration water in low-lying lands, His Excellency the Under-Secretary of State for Public Health has approved the appointment of adequate staff for filling in water collections caused by infiltration and a credit of L.E. 200 was put at the disposal of this Inspectorate for this purpose. The whole sum was spent in this work and therefore many potential mosquito breeding places were avoided.

(g) *Method of Collecting Milk.*

The samples are now taken by the Qism Medical Officers assisted by the Moaweneen at any hour of the day (in the morning or evening) from all milk shops or vendors once, twice or more per week. The vendors are now feeling continuous control over them.

(h) *Ambulant Vendors.*

The arrêté of the Ministry of the Interior dated 31st January 1915 was enforced since November 1931. The number of applications received by the Inspectorate from the Governorate till the end of December 1935 was 1,129 and the number of those returned to the Governorate for issuing *rukhsas* was 1,012. The remaining 72 applications were rejected and returned to the Governorate, and 45 are pending action.

The number of procès-verbeaux drawn up by the various Health Offices against unlicensed ambulant vendors was 1,431 of which 908 were against milk vendors.

The arrêté of May 18, 1925, is being enforced upon milk ambulant vendors who carry unstamped receptacles.

UNHEALTHY, INCONVENIENT AND DANGEROUS ESTABLISHMENTS.

Under the Law No. 13 of August 28, 1904, and the Arrêté of the Ministry of the Interior dated August 29 of the same year, the following establishments were licensed after compliance with the sanitary conditions :—

TABLE No. 73.

| Class        | Saha  | Za' t | Total |
|--------------|-------|-------|-------|
| I ... ..     | 138   | 25    | 163   |
| II ... ..    | 1,783 | 36    | 1,819 |
| III ... ..   | 472   | 6     | 478   |
| Total ... .. | 2,393 | 67    | 2,460 |

Licensed establishments (*Saha*) already existing in the city and its suburbs up till December 31 were 1,739 Class I, 11,521 Class II, and 2,908 Class III; total 16,168.

Of those visited during the year 8,582 were found satisfactory and 7,587 were found unsatisfactory, thus giving a percentage of 52 per cent satisfactory and 48 per cent unsatisfactory.

The number of visits paid to all already licensed establishments during the year amounted to 24,334.

The following table shows the number of visits paid by the different Qism Health Offices :—

TABLE No. 74.

| Qism                  | Number |
|-----------------------|--------|
| Bab el Shaaria ... .. | 1,158  |
| Sayeda II ... ..      | 1,150  |
| Ezbekia ... ..        | 1,842  |
| Gamalia ... ..        | 1,663  |
| Khalifa ... ..        | 1,654  |
| Darb el Ahmar ... ..  | 901    |
| Old Cairo ... ..      | 946    |
| Helwan ... ..         | 983    |
| Mouski ... ..         | 809    |
| Abdin ... ..          | 1,758  |
| Sayeda I ... ..       | 1,108  |
| Heliopolis ... ..     | 928    |
| Zeitoun ... ..        | 604    |
| Abbassia ... ..       | 3,080  |
| Shoubra II ... ..     | 1,645  |
| Shoubra I ... ..      | 1,558  |
| Boulaq II ... ..      | 1,126  |
| Boulaq I ... ..       | 1,530  |
| Total ... ..          | 24,334 |

The measures taken regarding unsatisfactory establishments are as follows :—

The licencees were notified of the conditions which were not complied with and a time limit was given to carry them out.

In the case of those who failed to comply, procès-verbeaux of contraventions were made against those whose *rukhsas* already carried the lacking conditions and Ministerial arrêtés were drawn up for those whose *rukhsas* were defective in this respect (Art. 6 of the law and Art. 8 of the arrêté of the Ministry of Interior annexed thereto).

Under the above-mentioned procedure the number of procès-verbeaux drawn up during the year for lacking conditions as well as establishments exploited without licences was 4,360 and the number of Ministerial arrêtés issued was 66.

#### PUBLIC ESTABLISHMENTS

Under the law No. 1 of January 9, 1904, 8 theatres, 36 cinemas and 11 establishments of other kinds were inspected during 1935. Of these 46 were already existing and 9 newly licensed.

The sanitary conditions were found satisfactory in 7 theatres, 34 cinemas and 11 establishments of other kinds and not satisfactory in 1 theatre and 2 cinemas

## Appendix V.

Extract from the Report of the Health Section, Alexandria Municipality\*

### SUMMARY OF THE VITAL STATISTICS FOR ALEXANDRIA FOR 1935.

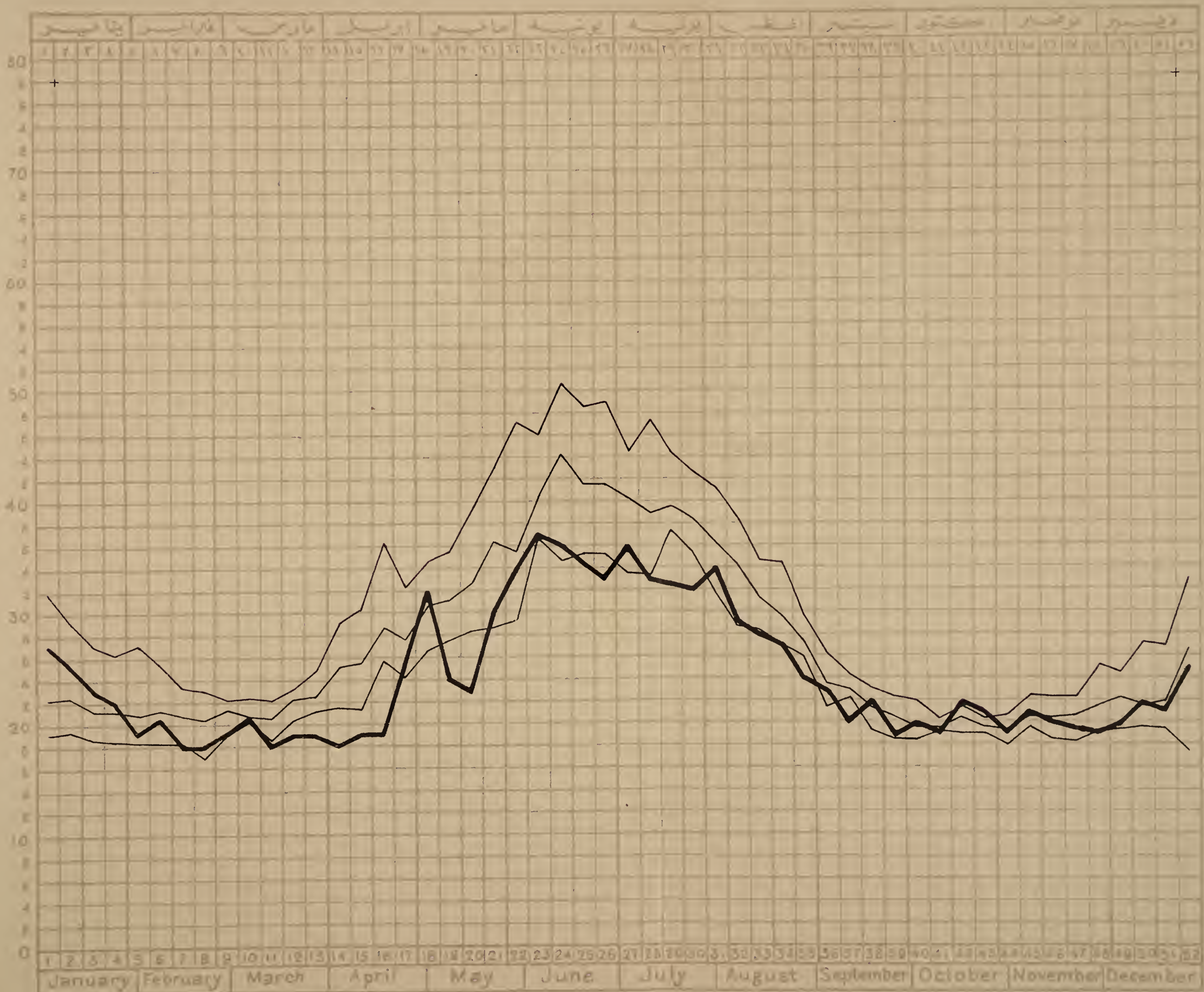
|                                                                    | 1934    | 1935    |
|--------------------------------------------------------------------|---------|---------|
| 1. <i>Area of Alexandria by square metres divided as follows :</i> |         |         |
| 77·444 land.                                                       |         |         |
| 68·379 Lakes of Mariut.                                            |         |         |
| 145·823 Total.                                                     | 145·82  | 145·82  |
| 2. <i>Population :</i>                                             |         |         |
| Egyptians ... ..                                                   | 563,200 | 580,100 |
| Foreigners ... ..                                                  | 117,800 | 119,300 |
| Total ... ..                                                       | 681,000 | 699,400 |
| 3. <i>Births :</i>                                                 |         |         |
| Egyptians ... ..                                                   | 27,040  | 25,182  |
| Foreigners ... ..                                                  | 1,360   | 1,306   |
| Total ... ..                                                       | 28,400  | 26,488  |
| 4. <i>Deaths :</i>                                                 |         |         |
| Egyptians ... ..                                                   | 16,739  | 16,575  |
| Foreigners ... ..                                                  | 892     | 954     |
| Total ... ..                                                       | 17,631  | 17,529  |
| 5. <i>Still Births :</i>                                           |         |         |
| Egyptians ... ..                                                   | 402     | 362     |
| Foreigners ... ..                                                  | 6       | 1       |
| Total ... ..                                                       | 408     | 363     |
| 6. <i>Infantile Mortality :</i>                                    |         |         |
| Egyptians ... ..                                                   | 5,991   | 5,640   |
| Foreigners ... ..                                                  | 65      | 67      |
| Total ... ..                                                       | 6,056   | 5,707   |
| 7. Infectious Diseases Cases ...                                   | 7,044   | 7,587   |
| 8. Infectious Diseases Deaths ...                                  | 1,205   | 1,183   |
| 9. Death-rate of Infectious Diseases                               | 17·1%   | 15·59%  |
| 10. Case-rate of Infectious Diseases per thousand of population    | 10·3    | 10·8    |

\* For detailed statistics please refer to Report of the Health Section, Alexandria Municipality for 1935



معدل الوفيات الأسبوعية بالنسبة لكل ألف من السكان في مدة خمس سنين من سنة ١٩٣٠ إلى سنة ١٩٣٤

Weekly Death-rates per 1000 Living in quinquennial period 1930-1934



ملاحظة المساحة والنماذج (٢٧/٢١٣)

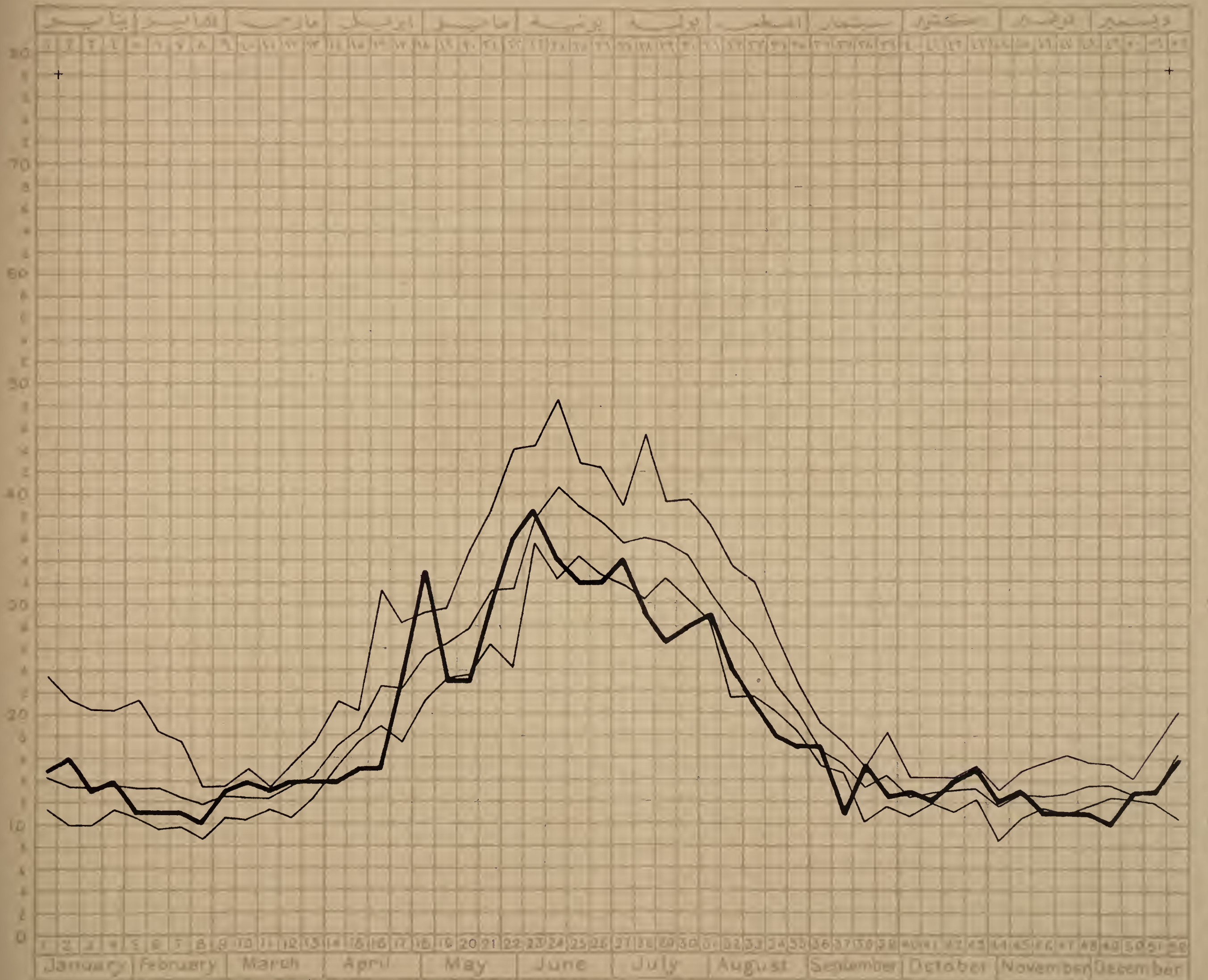
— نسبة الوفيات الاسبوعية في سنة ١٩٣٥  
Weekly death-rates in 1935

— أقصى وأدنى ومتوسط النسبة  
Max. , Min. & Mean rates



المعدل الأسبوعي لوفيات الأطفال الذين دون السنة الأولى من عمرهم بالنسبة لكل مائة مولود في مدة خمس سنين من سنة ١٩٣٠ إلى سنة ١٩٣٤

Cairo City Infantile Mortality (Children 0-1) in quinquennial period 1930-1934



مصلحة الساحة والناسخ ١٩٣٥ (٢٧/٢١٣)

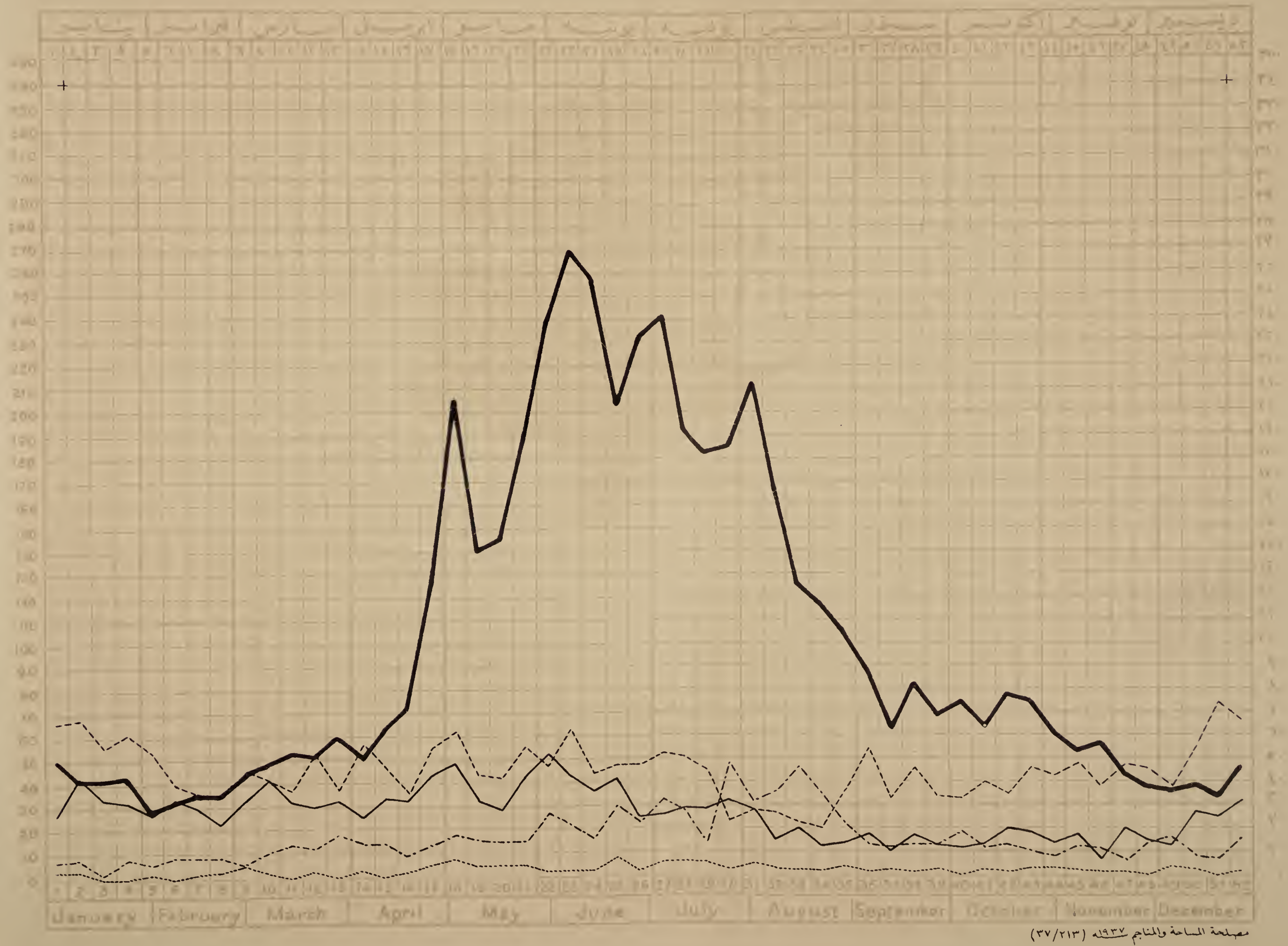
أقصى وأدنى ومتوسط نسبة الوفيات الأسبوعية لكل مائة مولود ————— Max. , Min. & Mean of Weekly death-rates per 100 Births

نسبة الوفيات الأسبوعية لكل مائة مولود في سنة ١٩٣٥ ————— Weekly death-rates per 100 Births for 1935



معدل الوفيات الأسبوعي للأطفال الذين دون السنة الاولى من عمرهم في سنة ١٩٣٥

Weekly Infantile Mortality (Children 0-1 Year) 1935 Cairo

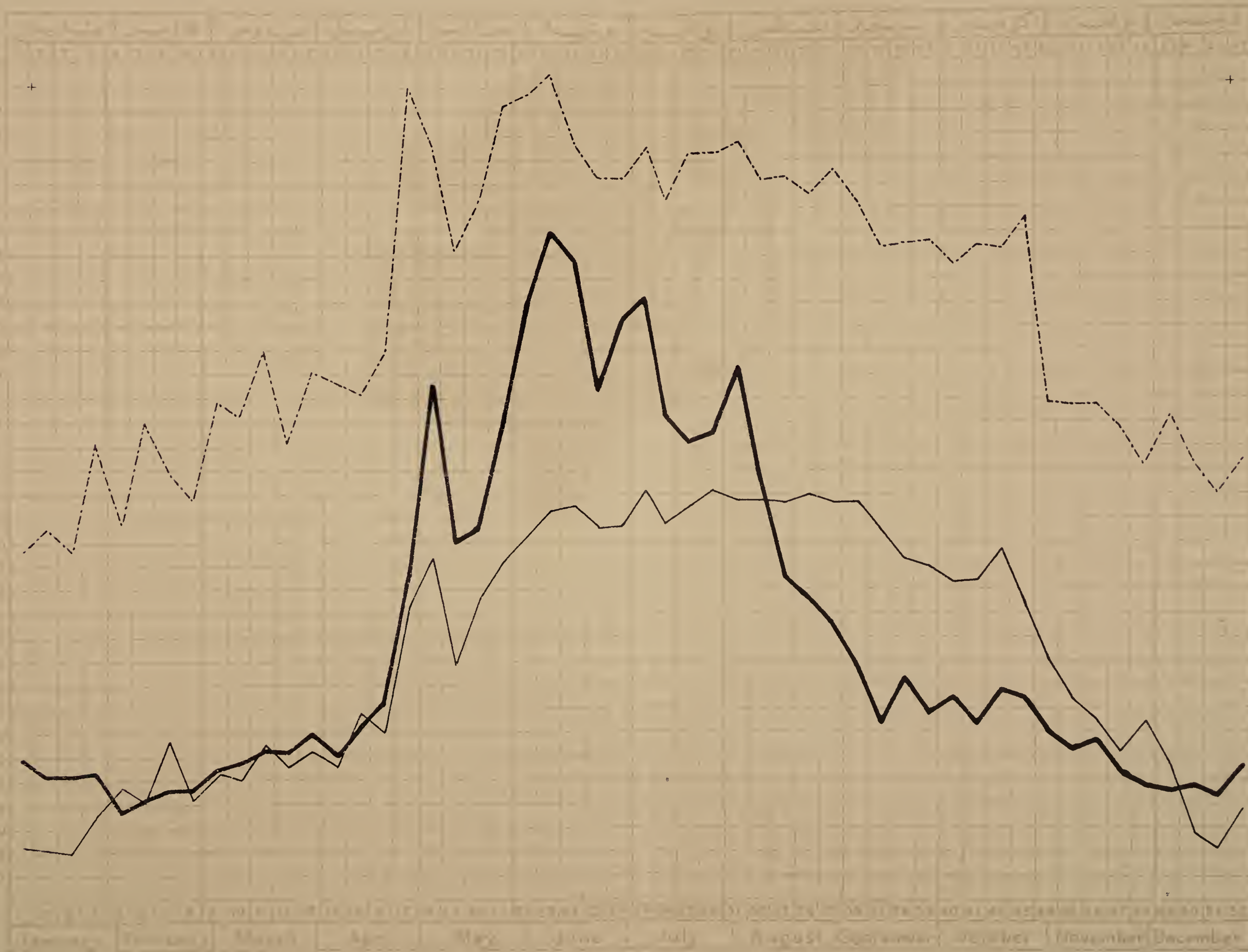


ضعف أو هزال ..... Marasmus      أمراض أخرى ..... Other Diseases      الأمراض المعدية ..... Infectious Diseases      الاسهال والنزلة المعوية ..... Diarrhœa & Enteritis      أمراض الصدر ..... Pulmonary



وفيات الاسهال للأطفال الذين دون السنة الأولى من عمرهم في سنة ١٩٣٥

Diarrhoeal Infantile Mortality (Children 0-1 Year) 1935 Cairo



مصلحة الساعة والمنجم ١٩٣٧ (٢٧/٢١٣)

الاسهال ————— Diarrhoea

Average Max. Temperature C°

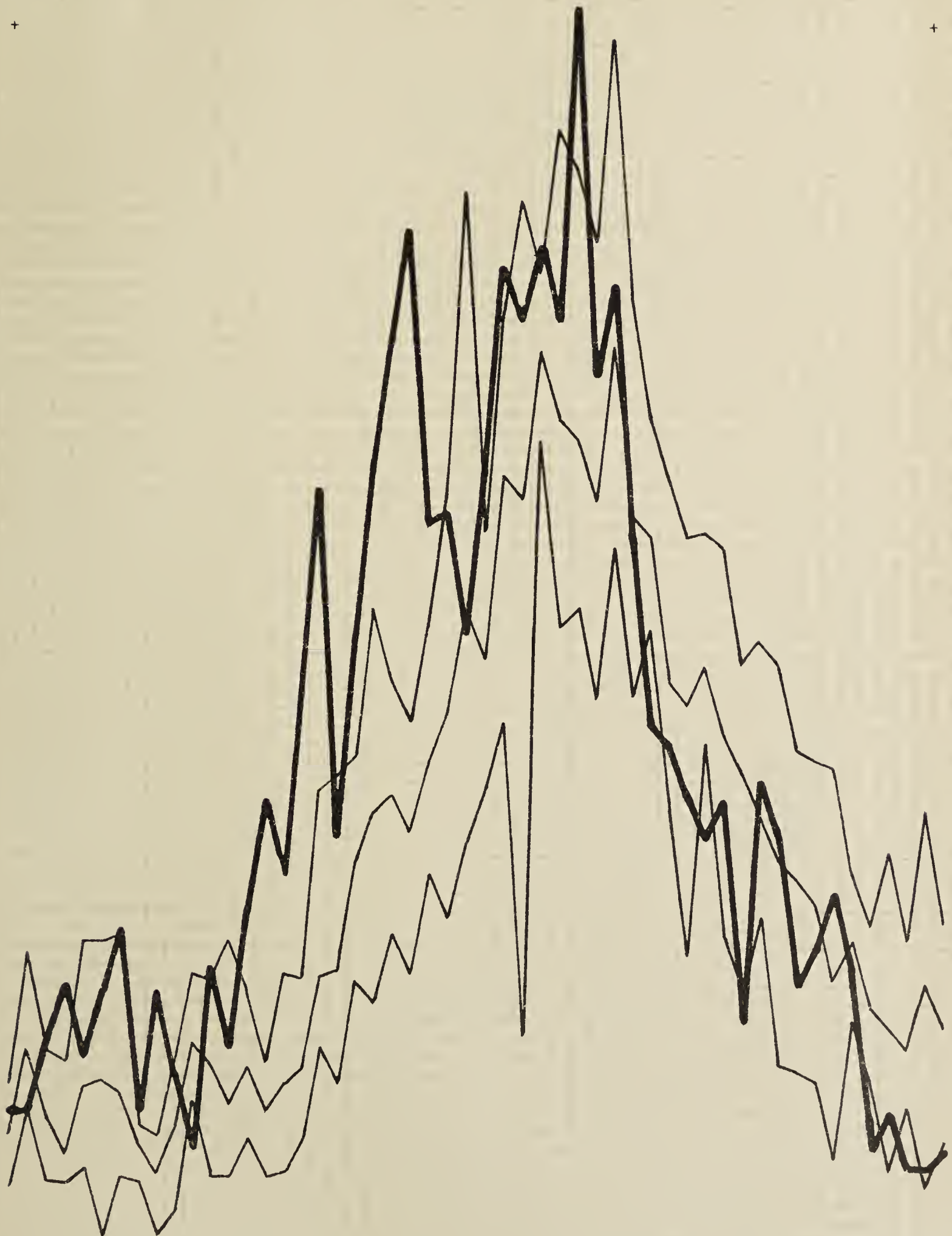
معدل أقصى درجات الحرارة بمقياس سنتيجراد

Average Minimum Temperature C°

معدل أدنى درجات الحرارة بمقياس سنتيجراد



# الحمى التيفودية Typhoid



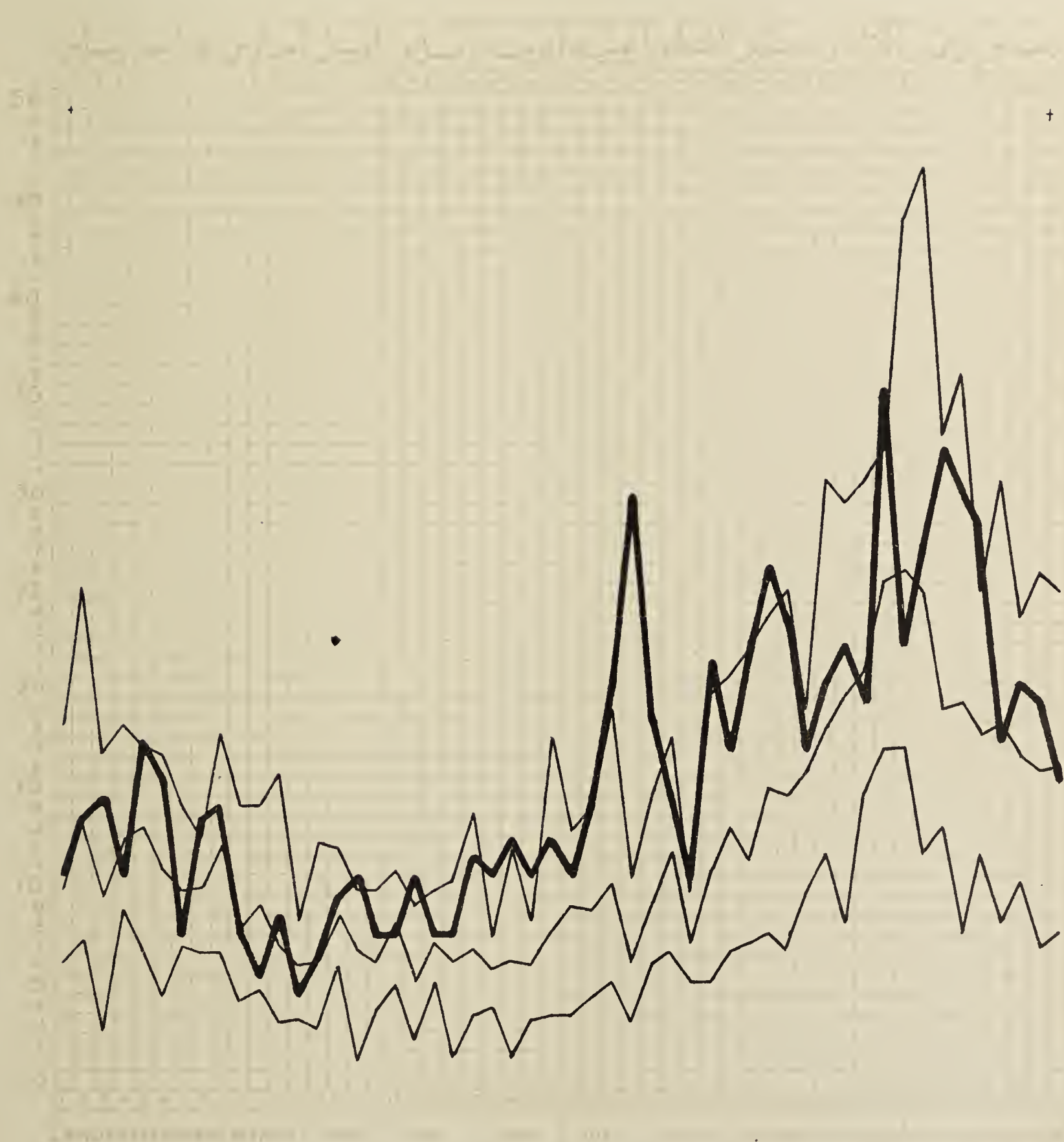
مصلحة المساحة والناجم ٣٧/٢١٣

أعلى وأدنى ومتوسط العدد الأسبوعي للإصابات بالنسبة لكل مليون من السكان في المدة من سنة ١٩٣٠ إلى سنة ١٩٣٤  
Weekly Max., Min. & Mean number of cases estimated per million of pop. 1930 - 1934

المجموع الأسبوعي للإصابات في سنة ١٩٣٥  
Weekly total of cases in 1935



## الدفترية Diphtheria



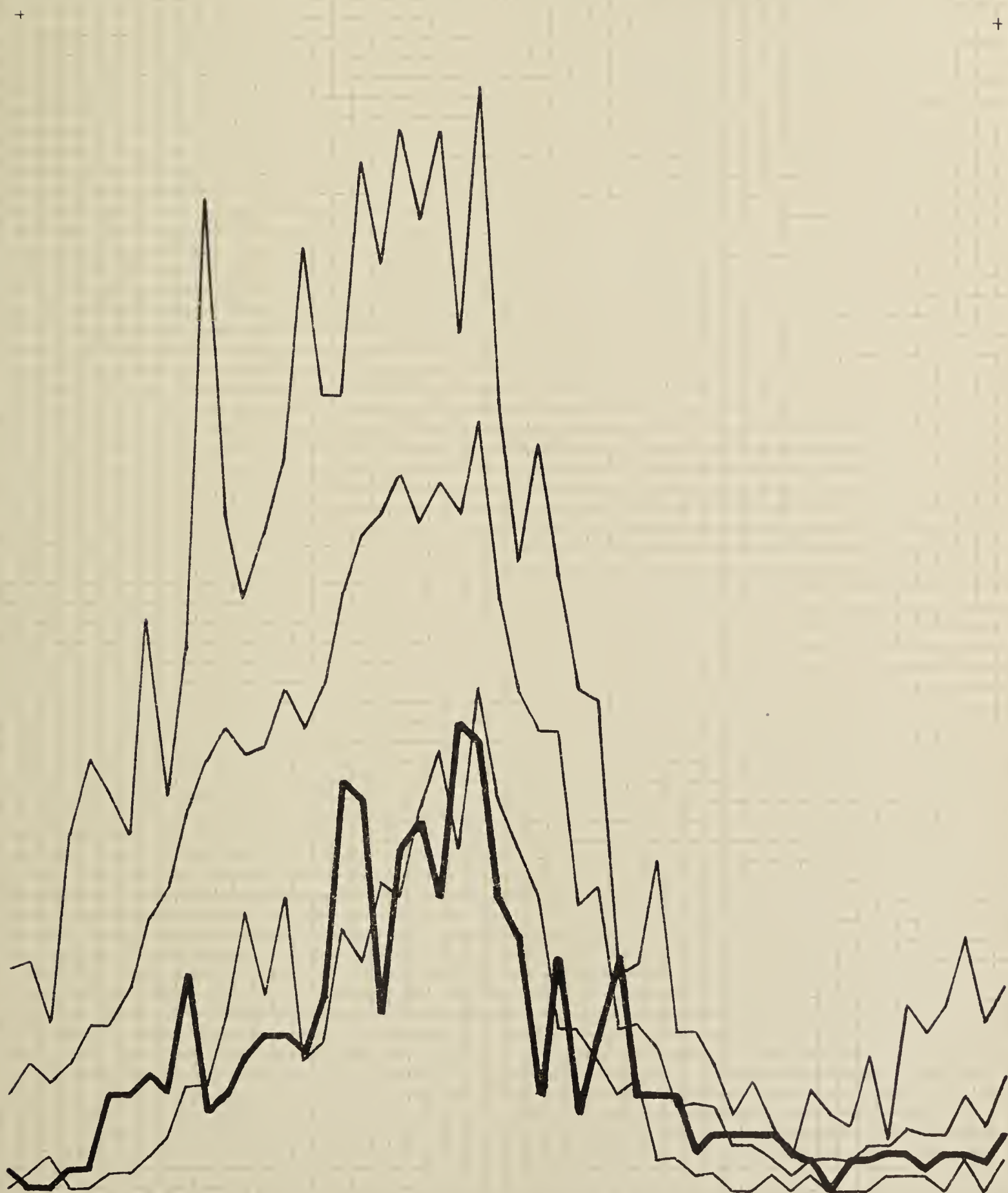
مصلحة المساحة والمناجم سنة ١٩٣٧ (٢١٣/٣٧)

أعلى وأدنى ومتوسط العدد الأسبوعي للإصابات بالنسبة لكل مليون من السكان في المدة من سنة ١٩٣٠ إلى سنة ١٩٣٤  
(Weekly Max., Min., & mean number of cases estimated per million of pop. 1930-1934)

المجموع الأسبوعي للإصابات في سنة ١٩٣٥  
(Weekly total of cases in 1935)



# الحصبة Measles



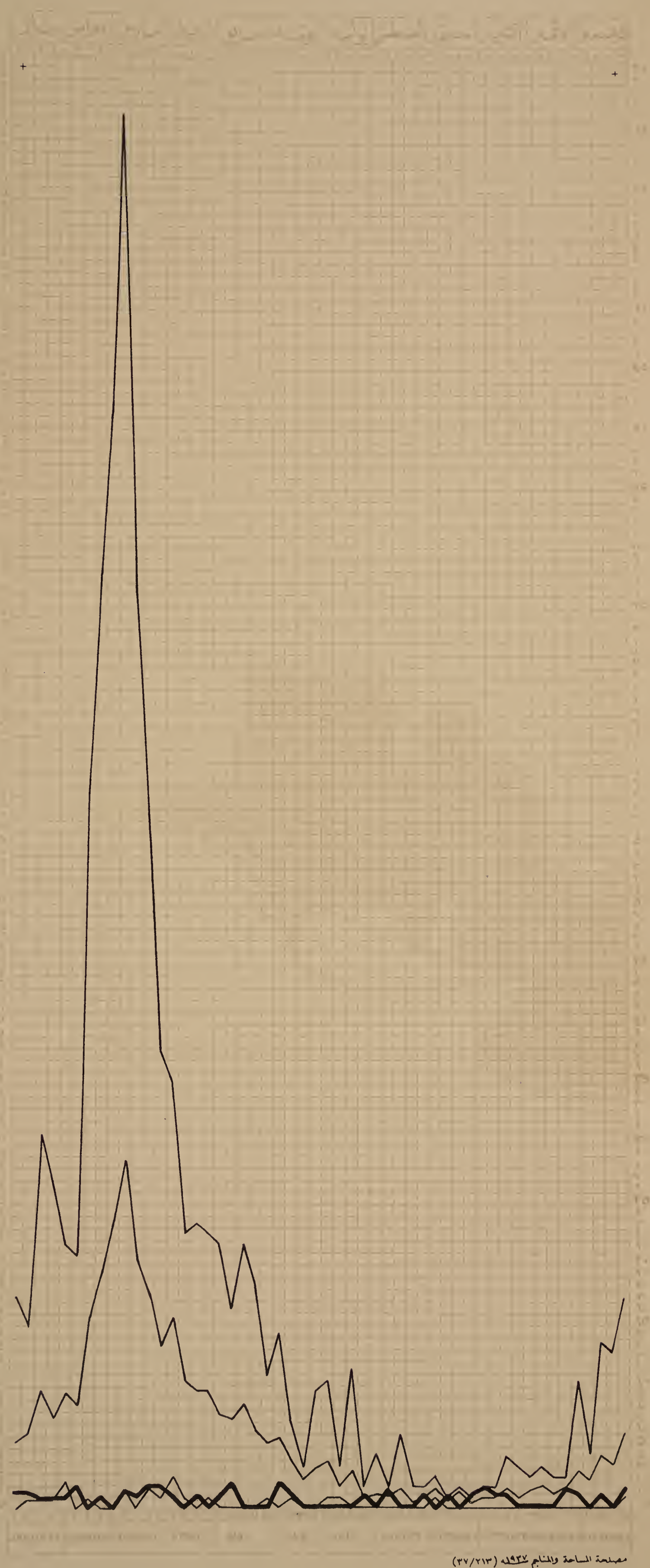
مصلحة المساحة والناجم ١٩٣٤ (٣٧/٢١٣)

أعلى وأدنى ومتوسط العدد الأسبوعي للإصابات بالنسبة لكل مليون من السكان في المدة من سنة ١٩٣٠ إلى سنة ١٩٣٤  
{ Weekly Max., Min., & mean number of cases estimated per million of pop. 1930-1934

المجموع الأسبوعي للإصابات في سنة ١٩٣٥  
{ Weekly total of cases in 1935



الحُمى الخفية الشوكية  
Cerebro Spinal Fever

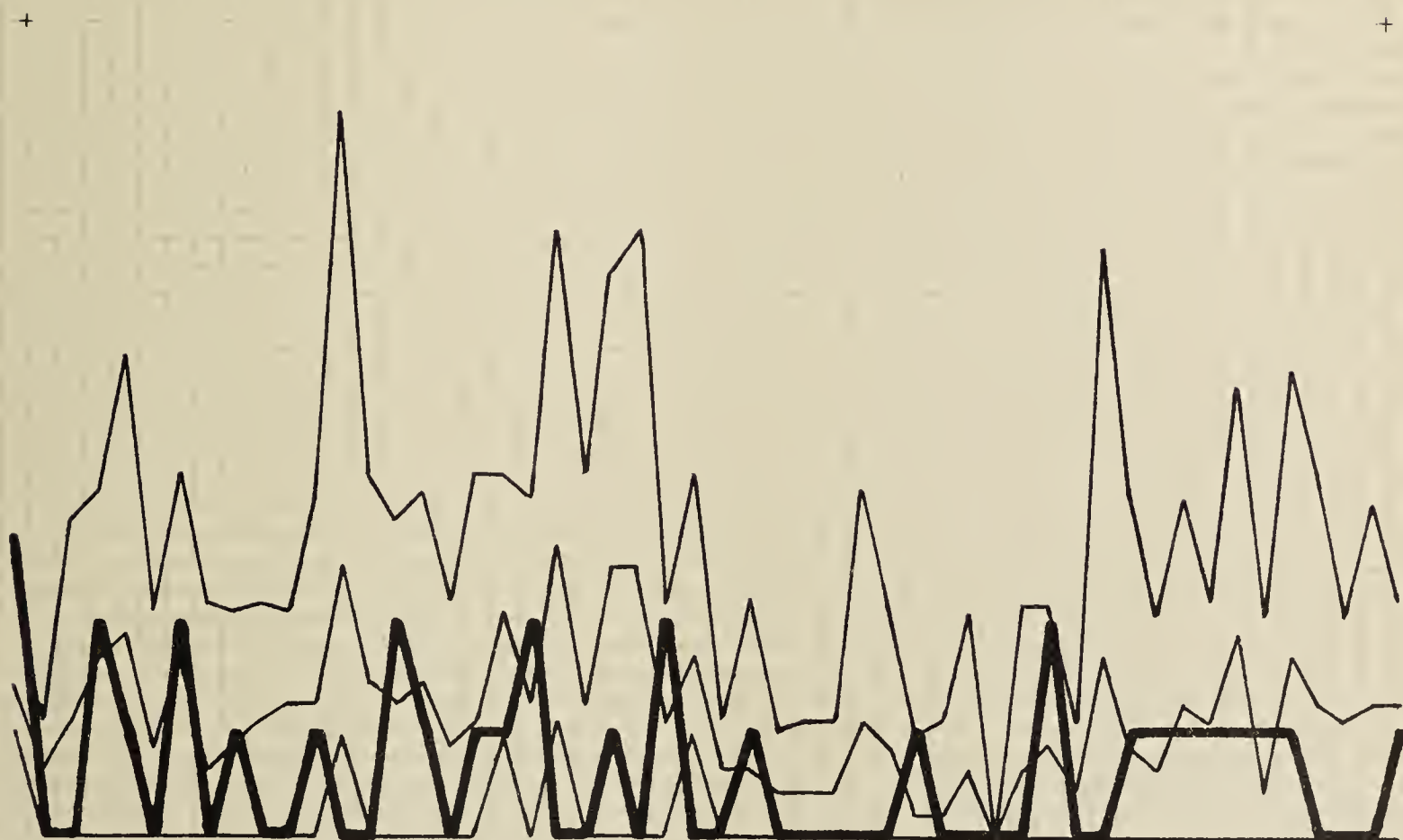


أعلى وأدنى ومتوسط العدد الأسبوعي للإصابات بالنسبة لكل مليون من السكان في المدة من سنة ١٩٣٤ إلى سنة ١٩٣٥  
(Weekly Max., Min., & mean number of cases estimated per million of pop. 1930-1934)

المجموع الأسبوعي للإصابات في سنة ١٩٣٥  
(Weekly total of cases in 1935)



## الحُمى القُرْمَرِيَّة Scarlet Fever



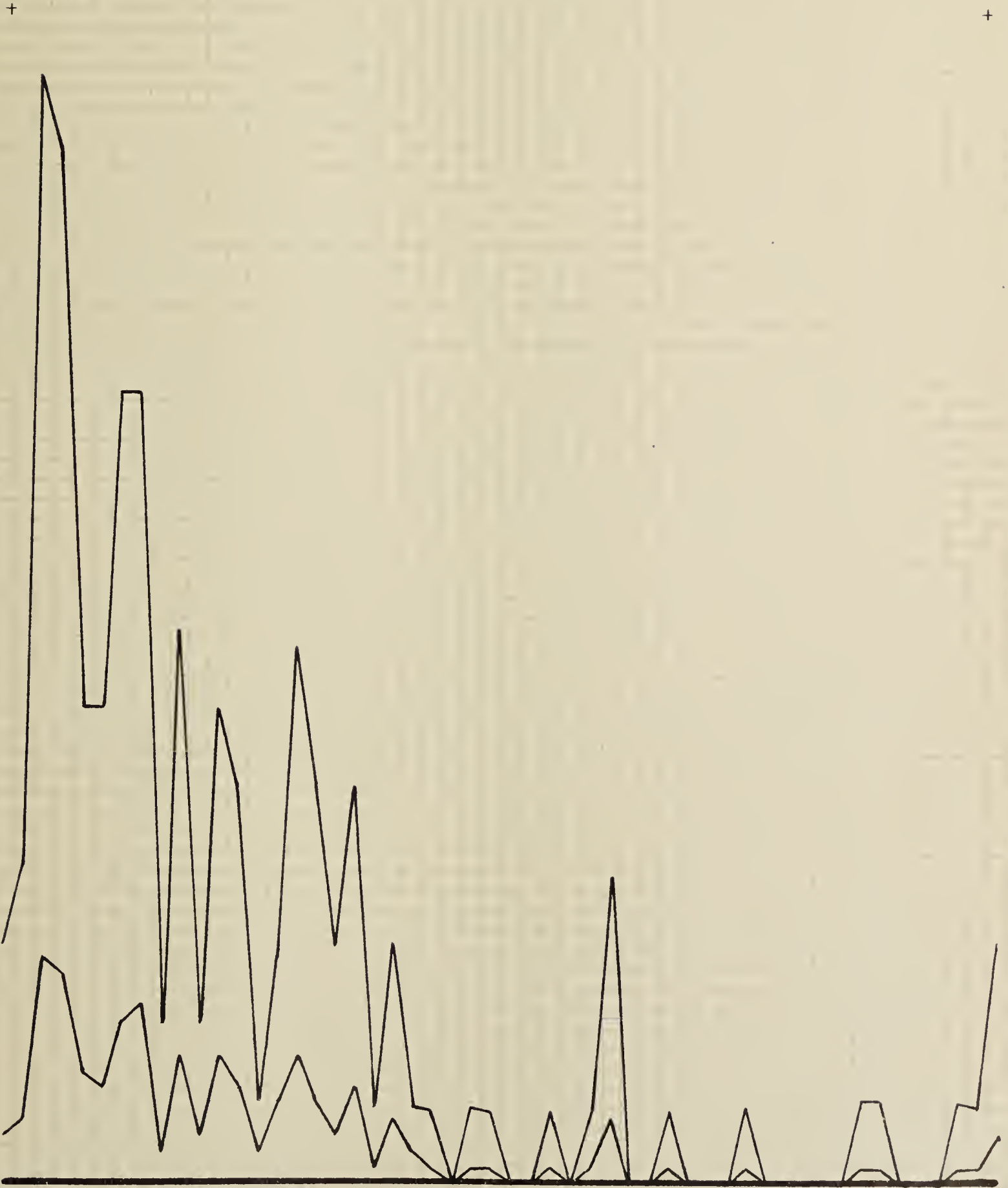
مصلحة المساحة والمناجم ١٩٣٧ (٣٧/٢١٣)

أعلى وأدنى ومتوسط العدد الأسبوعي للإصابات بالنسبة لكل خمسة ملايين من السكان في المدة من سنة ١٩٣٠ إلى سنة ١٩٣٤  
(Weekly Max., Min., & mean number of cases estimated per 5 millions of pop. 1930-1934)

المجموع الأسبوعي للإصابات بالنسبة لكل خمسة ملايين من السكان في سنة ١٩٣٥  
(Weekly total of cases estimated per 5 millions in 1935)



الجدري  
Small Pox



مصلحة المساحة والناجم ١٩٣٥ (٣٧/٢١٣)

أعلى وأدنى ومتوسط العدد الأسبوعي للاصابات بالنسبة لكل خمسة ملايين من السكان في المدة من سنة ١٩٣٠ إلى سنة ١٩٣٤  
{ Weekly Max., Min. & Mean number of cases estimated per 5 millions of pop. 1930 - 1934  
المجموع الأسبوعي للاصابات في سنة ١٩٣٥  
{ Weekly total of cases in 1935



الحمى التيفوسية  
Typhus



مصلحة المساحة والمناجم ١٩٣٤ (٣٧/٢١٣)

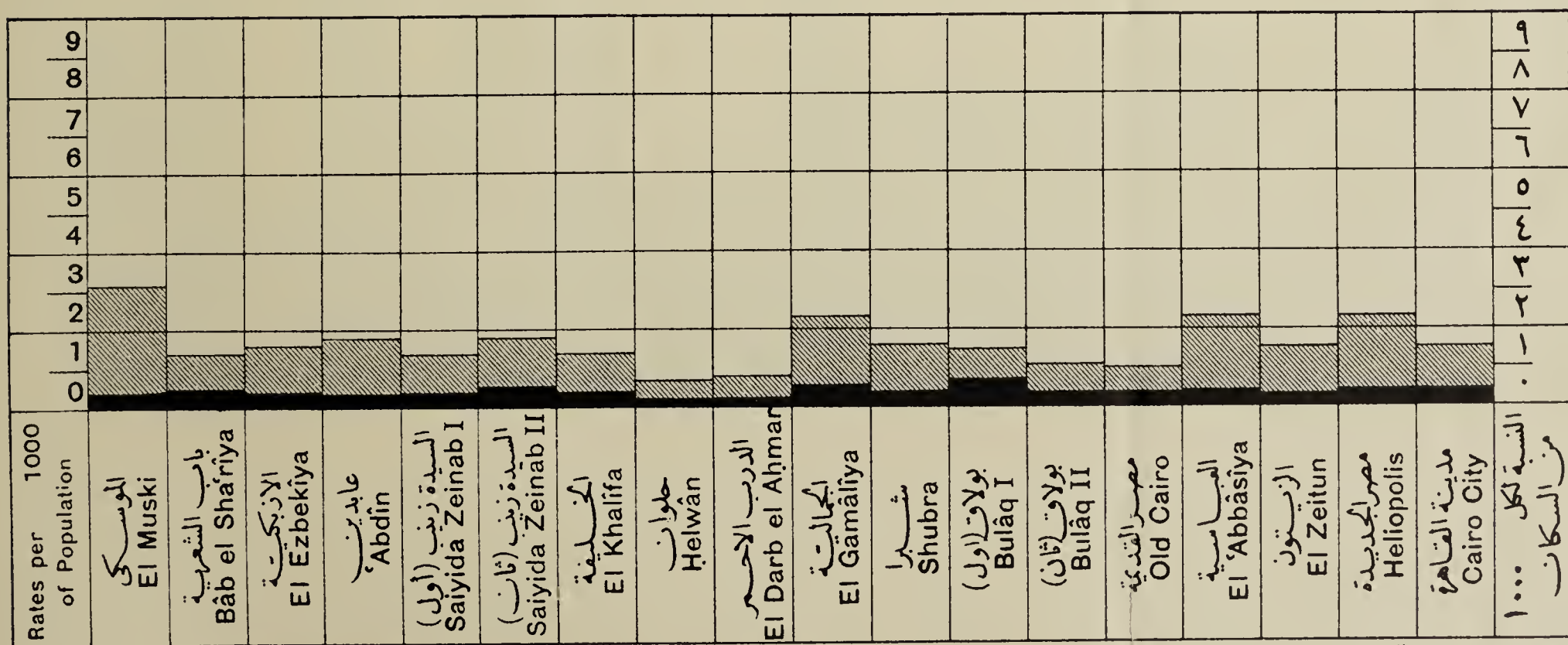
أعلى وأدنى ومتوسط العدد الأسبوعي للإصابات بالنسبة لكل خمسة ملايين من السكان في المدة من سنة ١٩٣٠ إلى سنة ١٩٣٤  
Weekly Max., Min. & Mean number of cases estimated per 5 millions of pop. 1930 - 1934

المجموع الأسبوعي للإصابات في سنة ١٩٣٥  
Weekly total of cases in 1935



نسبة إصابات ووفيات الحمى التيفية بأقسام القاهرة في سنة ١٩٣٥ لكل ألف من السكان

TYPHOID FEVER CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 1,000 OF POPULATION



مصلحة المساحة والمناجم سنة ١٩٣٧ (٢١٣ / ٢٧)

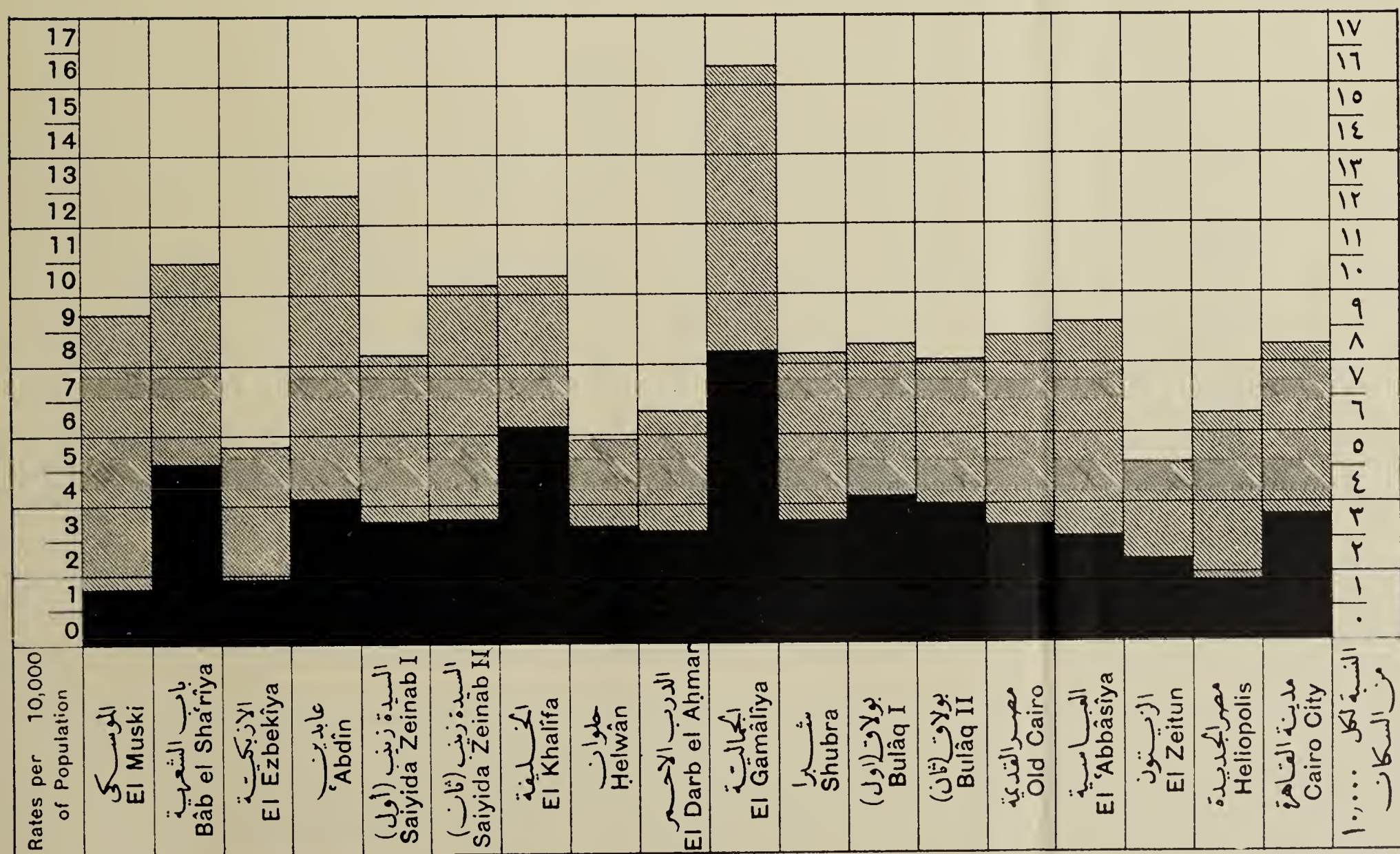
الوفيات  
Deaths

الاصابات المبلغ عنها  
Cases recorded

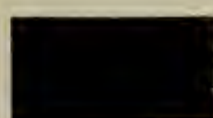


نسبة إصابات ووفيات الدفتريا بأقسام القاهرة في سنة ١٩٣٥ لكل عشرة آلاف من السكان

DIPHTHERIA CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 10,000 OF POPULATION



مصلحة المساحة والمناجم سنة ١٩٣٧ (٣٧/٢١٣)



الوفيات  
Deaths

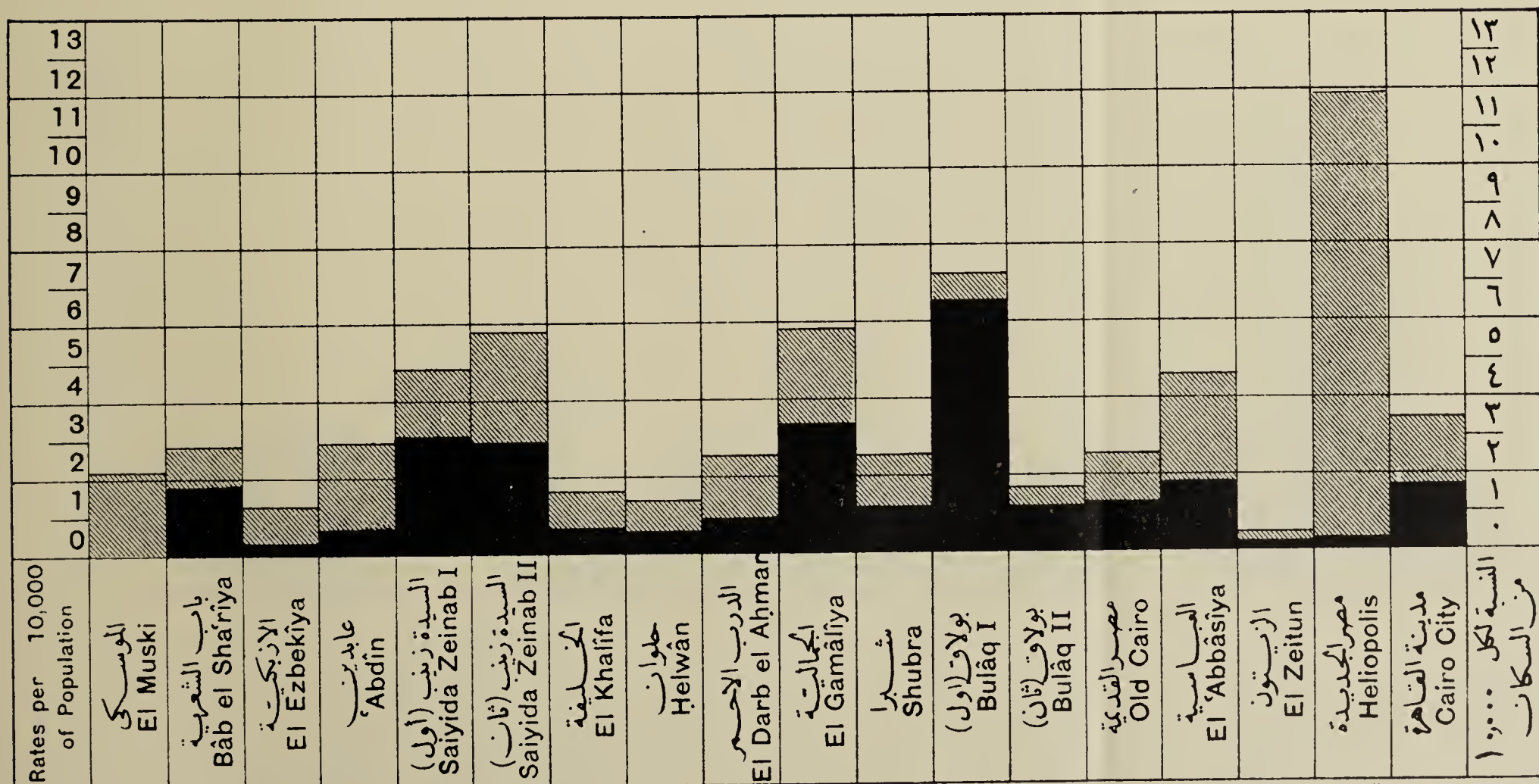


الاصابات المبلغ عنها  
Cases recorded



نسبة اصابات ووفيات الحصبة بأقسام القاهرة في سنة ١٩٣٥ لكل عشرة آلاف من السكان

MEASLES CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 10,000 OF POPULATION



مطبعة المساعة والناسخ سنة ١٩٣٧ (٢٧/٢١٣)

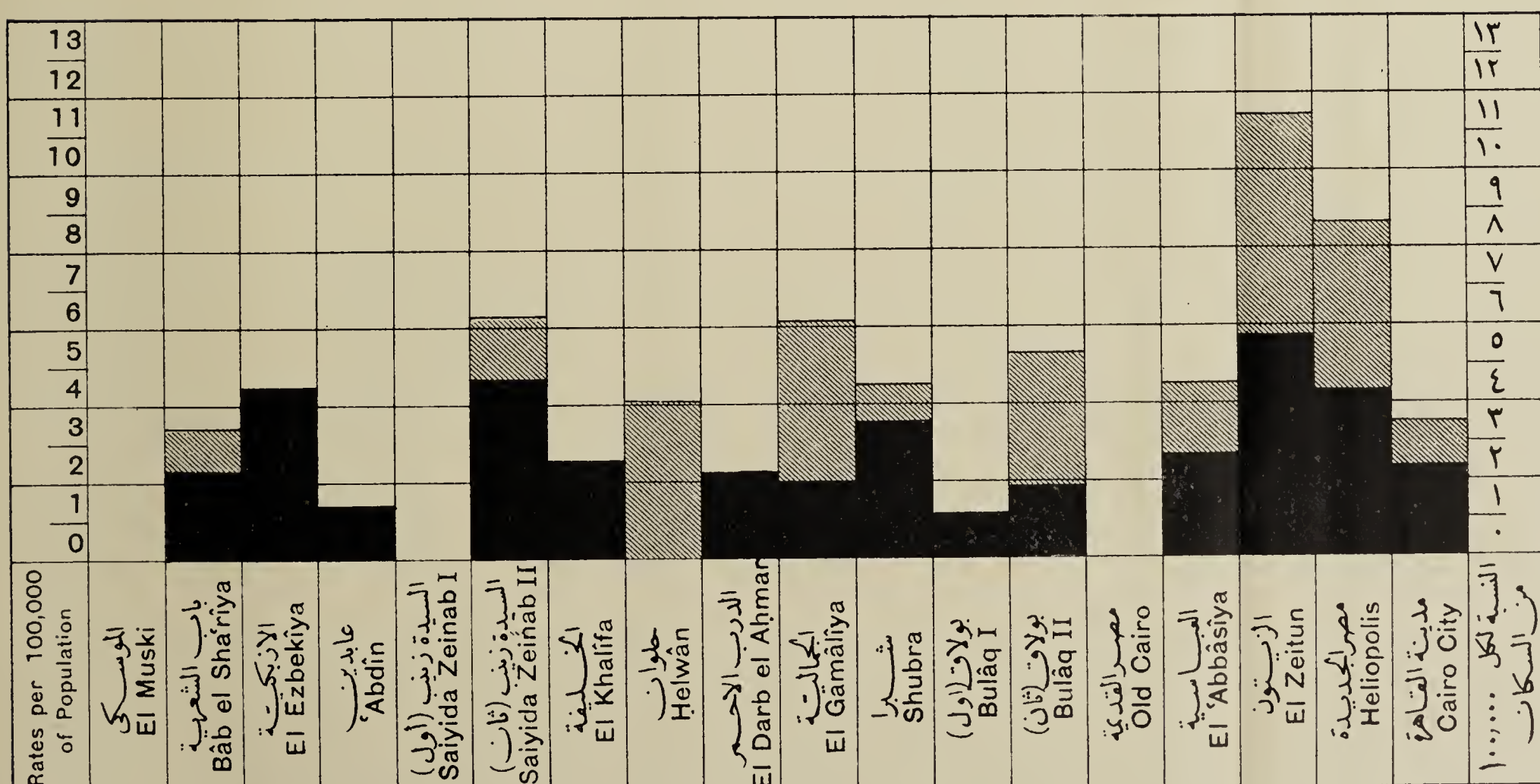
الوفيات  
Deaths

الاصابات المبلغ عنها  
Cases recorded



نسبة إصابات ووفيات الحمى المخية الشوكية بأقسام القاهرة في سنة ١٩٣٥ لكل مائة ألف من السكان

CEREBRO SPINAL FEVER CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 100,000 OF POPULATION



مصلحة المساحة والناجم سنة ١٩٣٧ (٣٧/٢١٣)

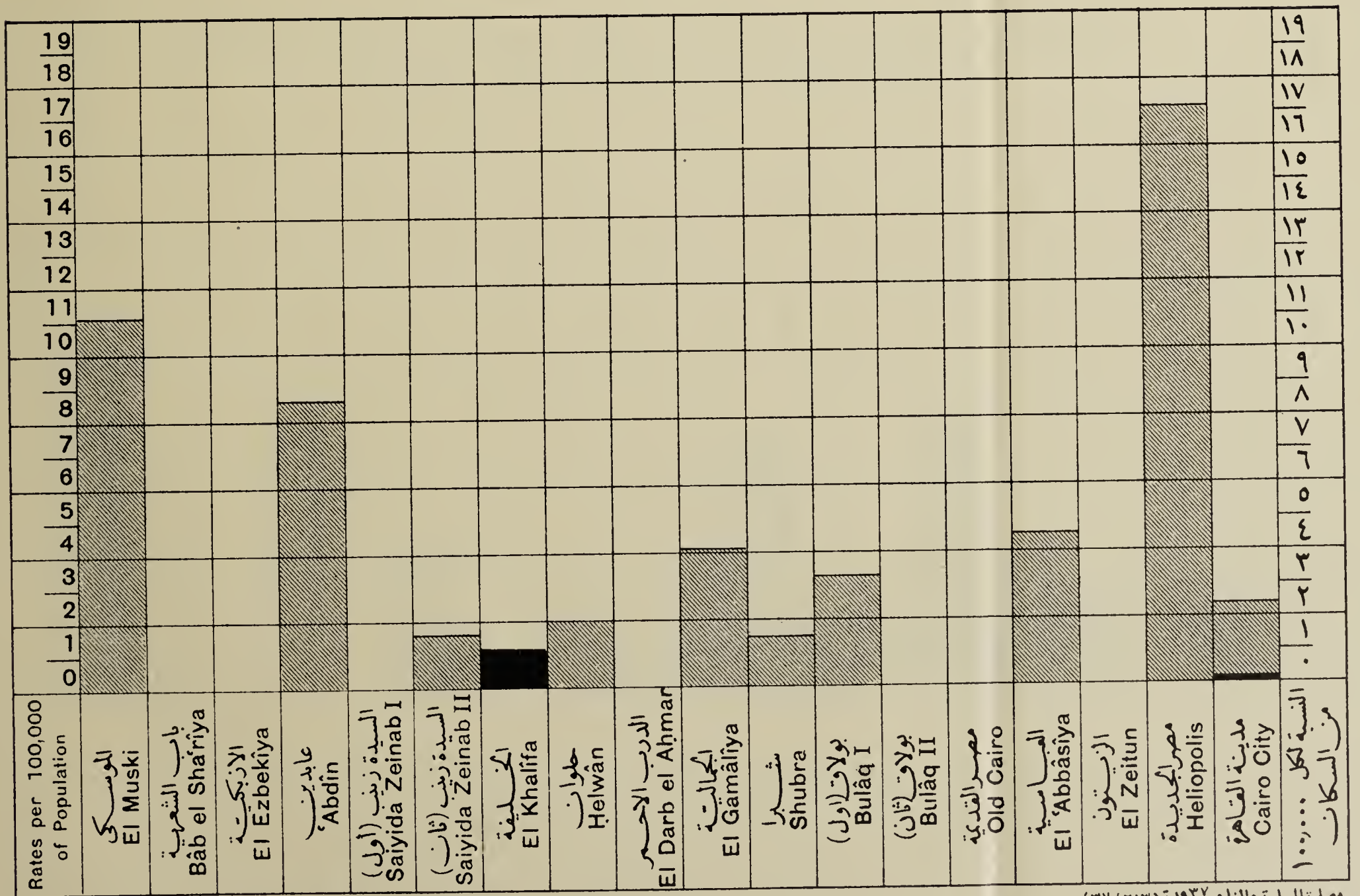
الوفيات  
Deaths

الاصابات المبلغ عنها  
Cases recorded



نسبة إصابات ووفيات الحمى القرمزية بأقسام القاهرة في سنة ١٩٣٥ لكل مائة ألف من السكان

SCARLET FEVER CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 100,000 OF POPULATION



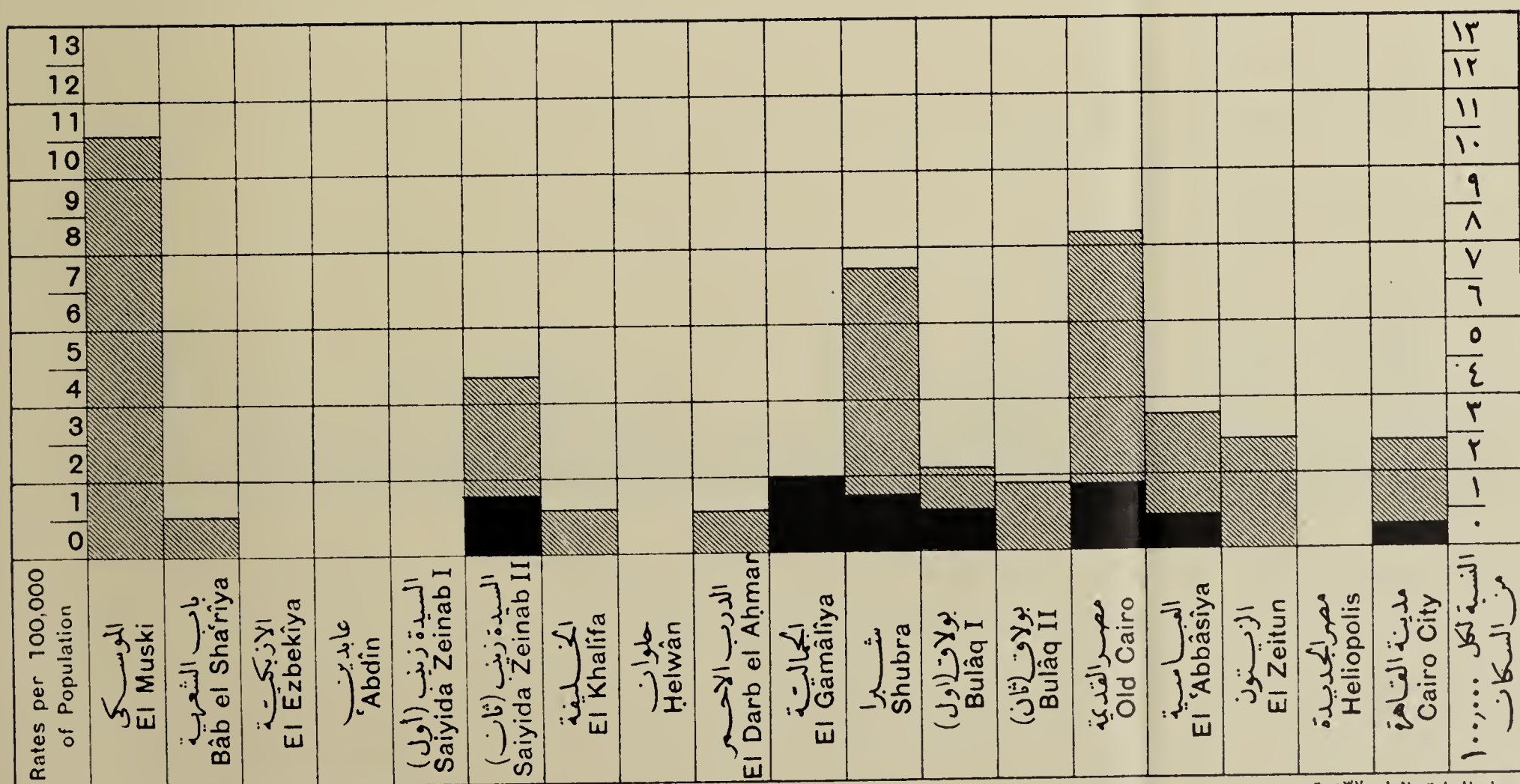
مصلحة الساعة والناسخ سنة ١٩٣٧ (٣٧/٢١٣)

الوفيات  
Deaths

الاصابات المبلغ عنها  
Cases recorded



نسبة إصابات ووفيات الحمى التيفوسية بأقسام القاهرة في سنة ١٩٣٥ لكل مائة ألف من السكان  
TYPHUS FEVER CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 100,000 OF POPULATION



مصلحة الصحة والناسم سنة ١٩٣٧ (٣٧/٢١٣)

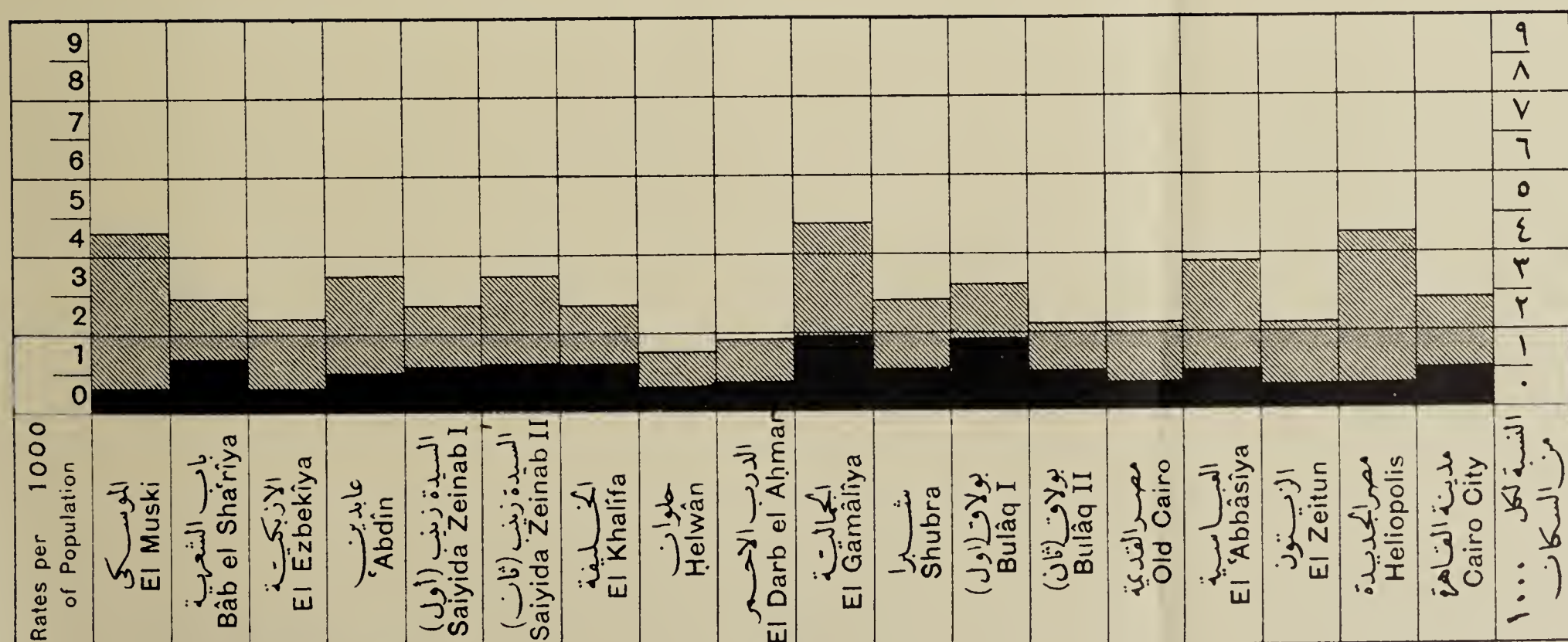
الوفيات  
Deaths

الاصابات المبلغ عنها  
Cases recorded



نسبة اصابات ووفيات الأمراض المعدية بأقسام القاهرة في سنة ١٩٣٥ لكل ألف من السكان

ZYMOTIC DISEASES CASE & DEATH-RATES IN CAIRO DISTRICTS  
IN 1935 PER 1,000 OF POPULATION



مصلحة المساحة والنسبة (٢٧/٢١٣) ١٩٣٦

الوفيات  
Deaths

الاصابات المبلغ عنها  
Cases recorded









